



RECRUITMENT PROCESS
AND
INTERVIEW EXPERIENCES

INTERVIEWEE
TESTIMONIALS

Placement Season
2018-2019 Second Semester



Foreword

Dear Students,

It gives us immense pleasure to present the PU Chronicles for the second semester of 2018-19. The document aims to provide you with information that would help you to make important decisions related to your placements and academics.

This document has been curated by compiling the interview experiences from students who cleared the interview rounds and were placed in the companies that visited campus in 2018-19 Sem 2. This is by no means an exhaustive document enlisting all the students placed or all companies that visited. The information here is from the student's perspective and thus can be very resourceful to students as they gear up for the processes yet to come. We urge you to get in touch with us directly to clarify doubts, and also write to us at pu.bitspilani@gmail.com and/or on the Slack channels in case you notice any glaring errors. We will ensure that a rectification notice is sent at the earliest.

A word of caution. Placements is an extremely volatile area, and changes based on a number of factors such as market conditions, recruiter relationships and business constraints. Please read through the document with the awareness that the trend for a certain year may not be the trend for the next year. Hence, streams that did not do well in a particular year will be the best placed in the following year. The rounds and processes conducted by a company in the previous semester may very well differ this semester.

Hence, prepare hard, be optimistic, and rest assured - the Placement Unit is always there for you!

All the Best,
Placement Team,
Pilani Campus

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Domain

Analytics

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Sector: Analytics

Name: *Anchit Bansal (2015A1PS0703P)*

Company: Axis Bank

Profile: Manager – Risk Analytics

Recruitment Procedure

- Resume Shortlisting, Online Test, Interview
- Online test had 2 parts, personality test and aptitude test
 - Personality test was long and had similar questions repeated with slightly different language. Try to give same answers for similar questions.
 - Aptitude test had Quant, Verbal and Data Interpretation questions.
- Interview Questions:
 - Walk me through your resume.
 - Questions about my general interest and how I can apply what I have learnt before.
 - A lot of situation based HR questions were asked. For example: If someone in your team is refusing to work then what will you do?
 - Technical questions for my interview started with general points in my resume and then a lot of questions were asked from SQL as it was mentioned in my resume and the job description.

Sources of Preparation

- Read the job description very carefully and fully understand the job requirements.
- Indiabix website for aptitude questions.
- Be well versed with your resume.
- For SQL check w3schools website for syntax and practice questions on hackerrank.
- Practice answering some HR questions

Courses and Certification

- A course or certification in SQL could be a plus. (Although I didn't have any, they usually care about if you know how to apply it or not.)
- No other courses or certifications as such.

Other Relevant Information

Most job interviews and not just axis bank are FIT based rather than SKILL based. You need to be able to convince the recruiter why you wish to join that particular organization and not work in some other sector. Try to answer as honestly as possible.

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Sector: Analytics.

Name: *G. Srinivasan* (2015A4PS0283P)

Company: Axis Bank -Business Intelligence Unit

Profile: Manager (Business Analyst)

Recruitment Procedure

Resume shortlisting, online aptitude test, psychometric test, HR and technical interview.

Online test was a normal aptitude test. Be quick on the calculations and thinking and you can complete it in half the time.

In psychometric test, the consistency in your answers are checked rather than the answer itself, so be as true to yourself and stick to the answer even though you feel it might be wrong.

The Technical interview consisted of SQL question, following up on tell me about yourself and why you did a thing. They don't care a lot about what you did, but they do focus a lot on why you did whatever you did. It was followed up by guesstimate question of finding the loss of Maggi post the ban of its sales. Again, only the approach is given focus on, not your final result, but be quick in calculations.

Final question was about situation based on personal behaviour and how you react under situations.

Sources of Preparation

Online test series, Quickbrain app, case in point book

Courses and Certification

Knowledge on SQL, Python, R or SAS is given a preference. These can be done on Coursera.

Other Relevant Information

The bank is mostly focussed on problem solving and innovative methods, and your ability to convince them that you have a hunger to work for this specific bank and for this post only. A bit of exaggeration is required here but the interview overall gave a friendly atmosphere.

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Sector: Analytics.

Name: *Dhanush K* (2015A8PS0374P)

Company: Deloitte

Profile: Business Technology Analyst

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical Interview, Technical + HR Interview.
- The online test had 3 sections:
 - Quantitative Aptitude
 - English
 - Coding Questions: Two coding questions were asked. The level of the questions were mediocre and require the knowledge of Data Structures and Algorithms.
- The test was generic and about the same level as an IT company might conduct during Day 2. Going back to the previous sections is not allowed.
- Technical Interview 1:
 - Tell me about yourself.
 - Follow-up questions based on what you tell during your introduction.
 - Main focus was on the projects and internships done, depending on which the interviewer is more interested in. Approach to implement your project in the real world was taken note of after explaining the idea behind the project.
 - The interviewer was interested in the latest technologies used in the projects and how they improve the performance of the project.
 - Personally, my interview was more about my projects as I had done some self-projects related to AI and Machine Learning and that caught the attention of the interviewer. Hence all I was asked about was my projects and how to improve them so that they can be of use in the real world.
- Technical Interview 2 + HR:
 - Technical part of the interview followed suite to how the first interview took place.
 - Coming to the HR part of the interview, standard HR questions were asked. For example:
 - Why Deloitte?
 - Tell me about your family and what you find to be the best virtue in your family member who is having a job.
 - Are you willing to relocate?





Sources of Preparation

- Common Aptitude Questions from any website online. One could also prepare from the pre-placement material given by the placement unit for aptitude.
- InterviewBit and GeeksForGeeks for the coding part of the online test.

Courses and Certification

- No specific courses as such was required. But knowledge of DSA is required to be able to do the coding questions of the online test.

Other Relevant Information

Deloitte is a firm with a private partnership structure. The partners of the firm are the sole proprietors of the firm and the employees have to listen to the partner they are under and work according to him. Also, the levels of promotion one can get is limited as there are only about 5 to 6 levels in the firm hierarchy. Thus, career progression or the number of promotions received may not be as much as in another companies.





Sector: Consultancy and Analytics

Name: Sai Prasad Ippili (2015ABTS0506P)

Company: EXL Services

Profile: Business Analyst

Recruitment Procedure

- Resume Shortlisting
 - Online Test
 - Technical Interview
- Online Test was super easy. A quant and verbal test. The following questions were asked in interview:
- Tell us about yourself.
 - Some follow up questions as well.
 - Why are interested in the field if you're from this discipline (Manufacturing in my case)?
 - A Case study to solve - Purpose was to look at how you think. There's no “Right” process to choose in the discussion.
 - A guesstimate: Same as the case study.
 - Solving the above having a logical approach to it is important for the selection.

Sources of Preparation

There is ton of material available for case studies and guesstimates all over internet(*DC++*). Solve 4-5 of each and you're good to go.

Courses and Certification

None required as such. But an internship or PS in a similar firm or any firm with a similar job profile would help. Again, not at all necessary. I didn't have a PS/Internship in the field.

Other Relevant Information

Make sure that you remember the flowcharts while solving a case. Don't keep it too simple or too clumsy. Keep it easily understandable. Use good vocabulary. They seem to be looking for that as well.





Sector: Analytics.

Name: *Shreya Pathak (2015A1PS0720P)*

Company: Flipkart

Profile: Associate Business Analyst - Business Development

Recruitment Procedure

- Round 1: Resume shortlisting
120 students were short listed
- Round 2: Group discussion
There were around 10-12 groups, most of the topics were about the E-Commerce industry.
Topic of my group was “How to increase customer loyalty?”
28 students cleared the GD round
- Round 3 & 4: Interview 1 & 2
Both rounds were a mix of Technical and HR questions. Few of the questions asked were:
What was your GD topic? Elaborate a little further on your ideas
Resume based questions (Explain your PS 2 projects)
Other follow up questions (based on applying internship knowledge to E-commerce problems)
Guesstimates and Case studies (they can be general or made up on the spot based on your past internships, related to business or of an intuitive nature for example: “Would Netflix ever replace Cinema? Why/why not”)
HR questions: examples: “Tell me 3 reasons why I should NOT hire you”, “Tell me something interesting about yourself” and other follow up questions based on the answers you give
13 people cleared interview 1 and 5 people were finally offered the position.

Sources of Preparation

Be thorough with your resume. It’s good to keep yourself updated with concepts of E-Commerce, Business and general market trends. Search online for guesstimates and case studies and practise some examples.

Other Relevant Information

It’s important to have good communication skills. Go through mock GDs online or ones organised by PU. Be confident. Avoid contradicting yourself at any point during the interview, be crisp and to the point with your answers.

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Sector: Analytics

Name: Siddhant Narula (2014B4A80810P)

Company: Flipkart

Profile: ABA (Associate Business Analyst)

Recruitment Procedure

- Resume Shortlisting
- First Round of Interview
 - The interviews was completely based on my resume. Questions were asked about PS II (In great depth) and PoRs. They will keep drilling you with questions and you are expected to be immediate with your answers.
- Second Round of Interview
 - This involved a mix of HR questions, Case Study and Guesstimate
 - The HR questions involved questions like: Tell me something interesting about yourself, tell me about your parents, what qualities of yours do you see in which parent, why shouldn't we hire you, what are your top 3 strengths, describe yourself as a person
 - Guesstimate: Estimate the area of India (Use Area of Rhombus Logic)
 - Case Study: Flipkart's GMV is 50% lesser than it should be and you have 6 months to get it back on track. What will you do?

Sources of Preparation

Flipkart ABA Job Description (Most useful, helped me crack my second interview), Case Interviews Cracked + Case Interview Secrets, Knowing your Resume in Depth (Most Important for Round 1).





Sector: Consultancy/Analytics.

Name: Sri Harsha Panda (2014B2A10618P)

Company: Flipkart

Profile: Associate Business Analyst – Business Development

Recruitment Procedure

Resume Shortlist → Group Discussion → Interview I → Interview II

R1 - Resume Shortlist

If there are a large number of applicants, there is a CGPA filter (7.2 this year). If there are fewer applications, spikes on the resume matter.

R2 - Group Discussion

The topic is generally related to e-commerce/flipkart. The topic in my GD was “How to increase loyalty in online buyers”. In few cases, abstract topics were also given.

R3 - Interview I

This interview was based on the resume, with questions on POR's. If you have internships involving tech, be prepared thoroughly on those points.

R4 - Interview II

Second interview was similar to a stress round. Apart from HR questions, a guesstimate and case were asked.

Guesstimate Q: How many cricket bats are sold in India?

Approach Suggested: Divide population into age groups. The younger groups are much more likely to play cricket and own a cricket bat. Account for professional cricketers, plastic bats etc.

Case Q: You are a Category Manager in Flipkart. Currently, 1 million diapers are sold. You have to increase the sales to 2 million. How do you go about it?

Approach Suggested: Clarified regarding the timeline to achieve the target (6 months). Split the target into two segments – existing buyers and new buyers. Suggestions included – mapping

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demand to optimize delivery, give recommendations to Flipkart buyers in the parental age groups, bundled sales to increase units sold per buy, promotions on various platforms etc.

Sources of Preparation:

Case Interviews Cracked, Day One, IIM Casebooks
Cases related to e-comm are recommended

Courses and Certification: None

Other relevant information

Confidence is key. Be prepared to answer things on your resume and rehearse all the basic HR questions. Puzzles might also be asked in some rounds (Geeksforgeeks is a good resource to practice).





Sector: Consultancy/ Analytics.

Name: *Abhinav Mathur* (2015A7PS0134P)

Company: Goodera

Profile: Product Analyst

Recruitment Procedure: Aptitude test, Product Case, HR Interview

Aptitude test was fairly easy.

Product case:

A school headmaster in charge of over 10 schools involving over 300 teachers and 60,000 students, deployed a web-based application for teacher performance management. However, he realises, that there is very little adoption/usage of this product for reporting about their day-to-day classroom activities. This has led to erratic data about student attendance and performance, teacher attendance and performance, classroom activities and lesson planning. What product idea will you come up with to ease this situation?

ii. To Answer

- Define the problem statement and the user types involved
- Come up with three product ideas you will consider for this and make a case for the winning solution
- Draw a mock up to showcase the working of your solution
- Define metrics for Success and how you will measure them
- How will you ensure adoption of your solution

The HR interview was resume based with questions on extracurricular activities.

Sources of Preparation: Cracking the PM Interview

Courses and Certification: N/A

Other Relevant Information: N/A





Sector: IT

Name: *Ankit Gupta* (2014B3A10687P)

Company: Goodera

Profile: Product Engineer

Recruitment Procedure

1. Online Test

There were 30 MCQs and 3 coding questions to be solved in 1 hour.

MCQs were mostly on finding the time complexity of a given code, some basic OOP and DBMS concepts. I just remember 1 coding question. Given a binary tree, find all the siblings of a given element. Around 37 students were selected based on this round. AFAIK some people who didn't solve a single coding question were also shortlisted for the next round.

2. Technical Interview 1

Interview started with some discussion on projects that I did during my internship. After that a lot of problems were asked on DSA. Interviewer just wanted to know my approach and asked me come up with the best time complexity possible. I wasn't asked to code anything.

3. Technical Interview 2

This interview was taken by the CTO of the company. It was a mix of technical and HR. He just wanted to understand if you are a right fit for the role and company. I was given two technical problems to solve in this round, again based on algorithms.

Sources of Preparation:

Interviewbit, Geeksforgeeks

Courses and Certification:

DSA, OOP





Other Relevant Information

Start practicing questions on DSA as soon as possible. I was able to clear the interviews only on the basis of my sound knowledge of DSA. Interviewbit is a great resource for that.

Do some research about the company before the interviews, especially when the company is not well known to the general public.





Sector: Marketing and Analytics

Name: Prasad Chandrashekhara Deshmukh (2015A3TS0268P)

Company: Goodera

Profile: Marketing Analyst

Recruitment Procedure

- Aptitude test, Group Activity, 2 Technical Interviews.
- There were 35 Verbal / DI / Quant questions shuffled across the test. Time given was 45 minutes. The test was fairly simple.
- For the Group Activity, the shortlisted people were divided into groups of 5 each and given a product idea that we had to improve upon. We were given an hour's time and after that every member of the team had to take up one area of the presentation viz. Problem Statement / Solution Mock-up / Success Metrics etc.
- The first interviewer over webcam asked details about my internships and what contribution I had towards improving each company's product. That followed with in depth questions about extra curriculars. He looked up my work on Instagram, Blogspot and Tumblr handles. He asked about my interest in filmmaking..
- After the first interview, they pitched me the Marketing Analyst profile as against the Customer Success one in which I was shortlisted. The second interview had me speaking over webcam with the Marketing Lead, who gave situations where I had to give plans for video scripting. There were some standard questions like- Do you think you can survive in a start-up culture? What are your skills that are NOT on this resume? Where do you see yourself 5/10 years down the line? And follow up questions from what you answer.

Sources of Preparation: CAT prep material (IMS) for Aptitude test.

Courses and Certification: SFVP (BITS)

Other Relevant Information: Know your resume well. Brush up details about the places where you've worked at before.





Sector: Consulting and Analytics

Name: *Srishti Goel* (2014B4A40641P)

Company: Goodera

Profile: Business analyst – Customer success management

Recruitment Procedure:

- Online- test, Group Activity, Technical and HR interview
- There was presentation by the company led by an online aptitude test. It was a 1-hour test with sections on Verbal, Quant, Reasoning and English.
- Soon after the test there was a group activity in which the shortlisted students were divided in groups of 5. There was a problem statement given to propose an effective solution for tracking the performance of students and teachers in a semi-urban area including the design of a dashboard to measure the progress for the same. Key performance indicator and cost effectiveness had to be taken into consideration too. Thereafter, an hour was given during which each group had to devise the solution and prepare a presentation on it. Based on the individual performance during the presentation the shortlisted students had the interviews.
- I was initially selected for the product management role and hence my interview was taken by a different team. During this interview I was asked questions from different sections of my resume, various questions on product management, detailed analysis of few products like ‘Inshorts’, ‘LinkedIn’ and ‘Splitwise’. Finally, we had few HR questions.
- Later when I was shifted to the business analyst role, there was a Skype interview which was taken by the team manager who gave a market entry case study to solve with a few accompanying questions from my resume.

Sources of Preparation: Aptitude test preparation from placement season website provided by Placement unit. Case Studies preparation from Case in Point, Case Interview Cracked, Victor Cheng Case Interview Case. Puzzles from geeks for geeks. Practiced few guestimates which can be easily found on Quora and IIM case books.

Courses and Certification: No subject as such required. However, basic finance courses like Security analysis and portfolio management (SAPM), derivatives of risk management (DRM), financial risk analytics and management (FRAM) and especially Business analysis and valuation (BAV) might be of good help.





Other Relevant Information: It will give you an edge if you have a decent knowledge about the company's work and the sector. It will be further helpful to have a project or internship in social sector. Most of my interviews were based on my resume so be as thorough as possible with it.



Sector: Consultancy/ Analytics

Name: *Devesh Narula (2015A8PS0491P)*

Company: Indus Insights

Profile: Associate

Recruitment Procedure :

1. Written Test, Guesstimate Interview, Case Study Interview, Behavioral Interview
2. Written Test had 2 parts:
 - a. Part 1 - 3 sections: Problem Solving, Critical Reasoning and Data interpretation
 - b. Part 2- Guesstimate: Monthly revenue of roadside vendors in a city like Delhi/Mumbai
- For Part 1 problem solving was a bit tricky, so questions should be read and analysed properly. Solve the sample paper sent by the company to get an idea.
- For Part 2, time could be a constraint, so write down the approach first and then go ahead with the calculations. Practice Guesstimates.
- Sectional cut-off for both the parts. Overall, the test was easy. 60 people got shortlisted after this test.
3. Guesstimate Interview:
 - Guesstimate the yearly revenue of a snack vendor at a bus terminal in a city
 - Approach is important rather than the calculations. Discuss the approach with the interviewer first. Form a proper structure and cover all aspects.
 - 6 people got shortlisted for the case study interview.
4. Case Study interview:
 - Market entry case for Canadian airline industry involving profitability and pricing
 - Be exhaustive with your approach, cover all aspects, analyse the data properly. This round can go on for around 90 minutes so stay calm and patient when you're solving the case and take your time if you're stuck/confused.
5. Behavioral Interview –





- General HR and resume questions. Selection is already done after the case round; this round is just meant to check if you're culturally fit for the company. 3 people got the final offer.

Sources of Preparation :

Case interviews cracked book and videos for guesstimates and cases. Other material like IIM-A casebook is useful as well.

Courses and Certification: No particular course/certification required.

Other Relevant Information :

Practice guesstimates in an interview setting and discuss the approach for multiple guesstimates. Same goes for cases, practice them with your friends in an interview setting. Just refer to the frameworks once and practice each type of case, then make your own framework. Really important to cover all aspects and thinking through for the case study interview. Reading about the value chain and customer journey for different products/industries will definitely help.





Sector: Healthcare Consulting

Name: Arindam Kr Bhattacharjee (2015A5PS0934P)

Company: IQVIA

Profile: Analyst

Recruitment Procedure

- Pre-Placement talk > Written Test > Group discussion > Interview (1 round) > Offer
- Difficulty of written test was above average. Consisted mainly of verbal ability and quantitative aptitude questions. There were few questions for data interpretation as well. The paper had many questions, so you'll have to be a bit quick.
- GD: Out of a group of 10, they shortlisted 4-5 for the next round. Make sure that your points are valid and well heard
- Interview: They'll grill you to know if you're really into the health care sector. Started with "Walk me through your resume". Be concise and to the point. Since I did my SOP and Special Project in Alzheimer's disease, they asked me a few basic questions about it as well. They also gave me a basic market sizing problem. Once these were done, they started asking situation based questions about workplace issues and how to deal with clients.

Sources of Preparation

- Case in Point
- Victor Cheng's videos
- Aptitude preparation from materials provided by PU

Courses and Certification

Nothing as such. They are also in hunt for candidates with data analytics knowledge. So, having a data analytics certifications or courses is an advantage but not a necessity.

Other Relevant Information

Be confident!! They want to see if you can handle client issues as well. They prefer to take a few pharma students as they require the domain expertise. Therefore, expect a few questions from core pharmaceuticals or projects. Non-pharma students need not worry, should at least understand the scenario of the healthcare sector and how the entire drug development process (FDA approvals, clinical trials etc.) works.





Sector: Analytics

Name: *Subham Choudhury* (2015A5TS0921P)

Company: IQVIA

Profile: Analyst

Recruitment Procedure

- Online test, Group discussion (GD), Technical and HR interview
- The test consisted of two tests.

1. The first was general aptitude test which consists of quantitative ability, logical reasoning, verbal ability and verbal reasoning.

2. The second was a Psychometric test. This basically tests your personality and mentality, to check if you are suitable for this company. There is no correct answer and wrong answer; they judge based on your personality. So be original.

- The tests were easy. Moreover, it is important to maintain speed to finish all the questions. Going back to previous question is not allowed. If you have a good practice, then clearing first round is easy.
- After shortlist of online test, GD was next round. Groups were divided into 9 people, from which they will select student for the next round based on your opinion, language and involvement.
- The students shortlisted in GD were then promoted to the next round i.e. Technical and HR interview.
- In the interview they ask questions based on the resume, projects, about the company and their work, 3 guesstimates questions and market sizing.
- They asked me about my role model, about my plans for higher studies, about my extracurricular activities, some question related to MS Excel if you have proficiency in it, about B. Pharm experience, some questions related to pharmacy core subjects and job location preference.
- Basically, you need to convince them that why this is your dream job and why you need this job.

Sources of Preparation





Practice for the online tests as much as you can. There are many online sites available for practicing (placement.freshersworld.com/aptitude-questions-and-answers). Also go through examples of guesstimates and market sizing.

To interact positively in interview make yourself comfortable and reduce your nervousness by objectifying yourself in front of mirror.

Courses and Certification

No special course or certificate required. Knowledge in MS Excel would preferably be better.

Other Relevant Information

In GD always speak a valid and strong point to prove your statement. Also, while in interview, you need to make yourself interesting to the interviewers. This would help you to convince the recruiter that you will be beneficial for them. Be honest in front of the interviewer. Do not fake any of your experience while interacting.





Sector: IT

Name: *Satyam Kumar Singh (2015A1PS0707P)*

Company: Times Internet

Profile: Business Analyst

Recruitment Procedure

3 rounds - 1 online round, 2 interview rounds

1. Online test has 3 sections:
 - a. Aptitude
 - b. SQL questions
 - c. Basic mathematics like P&C, probability, algebra.
Each section had 5 questions. Questions were pretty easy. I scored full marks in this round.
2. Round 2: Technical Interview
 - a. Do you know SQL? (I replied 'no', as I knew basics only)
 - b. Since Data Structures & Algorithms were written on my resume, he asked me a question related to binary search. The question was - If you are allowed only +/- in binary search, i.e., you cannot divide any number (we cannot do $n/2$), then what will be your most efficient algorithm?
 - c. Few basic questions on my projects.
3. Round 3: Technical Interview
 - a. Have you worked on SQL?
 - b. Question on my PS project - What is A/B testing? What was its significance in your project?
 - c. Guesstimate question - Suppose Air India has to repaint all its planes with the cost of ₹1000/m² (take the shape of the planes as a cylinder for simplicity), what will the total cost? [You have to estimate the number of flights]
 - d. NLP - Question on my project - How did you perform Twitter sentiment analysis? How do you remove bias from the text? How do you handle the words having different meanings in different contexts?
 - e. Quant - You go to buy rice and have different offers
 - i. 30% off
 - ii. 30% extra
 - iii. Buy 2, get 1 freeWhich one is the best? What if, instead of 30%, you get 35% off?

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- f. Anything that you would like to ask? - In the PPT, they had talked about recommender systems for the users of gaana.com. I asked them about the usage of the data they collect apart from building recommender systems and A/B testing.

HR round was also supposed to be held but they were running out of time, so only these two rounds of interview were held.

Sources of Preparation

Interviewbit, geeksforgeeks, PU chronicles, Cracking the coding interview book for questions on different data structures, geeksforgeeks archives especially for the interviews.

Courses and Certification

Data Science related courses/projects - Machine Learning, Data Mining, NLP (Coursera), Data Structures & Algorithms.

Other Relevant Information

They chose me because I had sound knowledge of Data Science and coding, although the profile was for a business analyst. I believe that mere theoretical knowledge is not sufficient, you should have demonstrated your skills via your projects.

It is not necessary that resume should consist of many things but it is necessary that it contents only those things about which you are confident. Be thorough with your resume. It is the syllabus you give to your interviewer to ask questions from so must be prepared with all the details.





Sector: C&A

Name: Kreeti Jha (2014B2A10888P)

Company: Viacom 18

Profile: Business Analyst

Recruitment Procedure:

First round is an aptitude test. It's a Google form based test. Some 20-25 questions in half an hour. Problems were majorly from basic probability (Bayes' theorem) and data interpretation. Two comprehensions were also there. Speed is required to finish the test as some questions have a lot of data and calculations. Calculator was not allowed.

Second round was an interview. Resume based questions were asked and they focused on projects done on PS-II/Internships. A couple of questions regarding Position of Responsibilities were also asked. Other interview questions that they asked me were:

(1) Assume a company like Amazon Prime (assume similar business model) wants to enter Indian entertainment industry with an app-based subscription model. The monthly subscription will be around INR 300. They will be using their original content as well as purchasing rights for certain popular shows and movies too. Estimate the number of subscribers they can acquire at the end of one year.

(2) Whenever we use an app, the integrated SDK/API sends out information tracking our activity on the application to the developer or advertiser. So, through that data we have a few data points and we want to roughly estimate the split in our male and female users. Suggest ways to do this.

(3) Voot currently doesn't have a subscription model and the only revenue source is through digital advertising. The number of people who install and use ad-blocker has also increased in the past few months. Suggest ways to improve our revenue given the current constraints are in place.

(4) There are a few online shows that have a good loyal audience and they give us a good daily watch time. We also have a considerable portion of our users who don't really stick to one show and keep switching but they also give us approximately the same daily watch time. So, if we are launching a new product, who will you target more and why?





(5) What do you think is an advantage Voot has over the new foreign entrants in the digital entertainment industry?

I was asked these these questions since my PS was in an Ad-Tech company and Viacom 18 was interviewing for their digital ventures' role.

Third round was an HR interview. It is advisable to research about the company before sitting for the HR round. This was pretty easy and only general questions were asked.

Sources of Preparation

The general resources (CIC, Case in Point, Victor Cheng, IIM Casebooks) and the material shared by PU is sufficient.

Courses and Certification

None as such

Other Relevant Information

Brush up your MS Excel skills before mentioning it on your resume. Knowledge of SQL is a plus.





Sector: Analytics.

Name: Aditya Joshi (2014B5A40825P)

Company: Zomato

Profile: Product Analyst

Recruitment Procedure

The hiring workflow consisted of 4 rounds, which were

- Resume shortlisting
 - Online test
 - Technical Interview 1
 - Technical Interview 2
1. **Resume shortlisting:** Everyone with cgpa > 6 was allowed to sit for the test conducted in IPC
 2. **Online test:** Test consisted of two sections. There were a total of 45 questions to be solved in 60 minutes
 - Section 1 consisted of a total of 30 questions, of which 10 were from P&C and probability, and the rest were based on data interpretation.
 - Section 2 consisted of 15 questions, based on data interpretation.
 3. **Technical Interview 1:** I was asked to walk the interviewer through my resume. I started with a brief personal introduction, followed by mentioning the titles of my projects at PS 1, summer after the third year, and at PS2. Then I explained my PS 2 project in some detail. After this, I was given a question from probability, followed by a puzzle. I was then asked to explain Logistic Regression, since I had mentioned it during the discussion on PS 2 project. I was asked if I am comfortable with Python, and then asked to write a simple code segment based on my project. This was followed by a few questions from statistics (correlation, covariance, etc.)
 4. **Technical Interview 2:** All discussion in this round was centered on my PS 2 project. I was quizzed on all aspects of my project, from collection and cleaning of data, to selection of a model, refining the results, and interpretation of results.

Following this, I was asked to come up with 5-6 features that Zomato might use to rate restaurants. I asked clarifying information, asked the interviewer for data that they have, came up with 5 features and refined them using inputs from the interviewer.

There was no HR round.





Sources of Preparation

I had written CAT earlier, so Aptitude round was a cakewalk. Introduction to Statistical Learning (ISLR), Hastie, Tibshernaniet.

Courses and Certification

Andrew Ng's Machine Learning(Coursera)

MITx : The analytics edge (Edx)

Probability & Mathematical Statistics (Institute of Actuaries of India)

Bloomberg Market Concepts (Bloomberg LLC)

Other Relevant Information

I had read the JD very thoroughly, and steered the discussion towards one of my projects which was most closely inclined with their requirements. Be very careful with the skills(technical) and projects you include in your resume, for questions will be asked on those. Expect a lot of questions on your projects.





Sector: Consulting & Analytics

Name: Rachit Agrawal (2014B1A30373P)

Company: Zomato

Profile: Product Analyst

Recruitment Procedure:

1. **Online Test:** Aptitude, DI & LR- Practice well for these before the Placement Season.
2. **Tech Interview:** 2 rounds, first rounds were on puzzles, guesstimates, and case solving. The second round was very technical and resume based, they'll grill you well on your projects and internships. This will continue into a case solving problem-based on the work from your previous experiences.

Sources of Preparation:

1. Puzzles: geeksforgeeks
2. Guesstimates: Case Interviews Cracked
3. Case Studies: Cracking the PM Interview. Since it's a Product Management profile, treat this book as your bible. Sleep with it, read it by heart. Understand the concepts. This book will prepare you how to appear in an interview, how and when and what to speak during an interview, and everything.

Courses and Certification

Can pick up a few courses on Product Management from online certification websites (I did a couple from Coursera).

Other Relevant Information

Everything an interviewer asks has a logic behind it. Don't frustrate, don't cuss. Interviews are not just meant to test your skills, they're also a means of judging if you fit well for a company or not.





Sector: Consultancy/ Analytics.

Name: Ricky Sharma (2015A2PS0611P)

Company: Zomato

Profile: Assistant Manager - Operations

Recruitment Procedure

- Resume Shortlisting, Online Test, Group Activity and two rounds of interview.
- Test had majorly two topics – Permutations-Combinations and Data interpretation.
- Test was easy. However, it is important to maintain speed to finish all questions.
- In the group activity round we had to play the game famously known as Mafia. They sent a mail with the rules one day before. You have to be confident and show that you are an energetic person and can speak in a group of people. How well can you convince others and if you are shy or not is tested in this round.
- Interview Experience:
 - a) Introduce yourself.
 - b) Remember to read the job description and about the company.
 - c) Puzzles
 - d) Resume grilling. You should be completely prepared about your resume as they will not leave any point unasked.
 - e) Guesstimates. (I was not asked this but few of the other candidates were.)
 - f) They gave different situations related to maintaining rider quality, measurement metrics, sourcing to hire people, etc.
 - g) Second interview was a stress interview. They did not agree with whatever I said and tried to make me uncomfortable but always remember to smile and be confident at that point.
- Answer every question with a logical approach and puzzles were not that tough if you keep a calm mind and concentrate. Panicking in the interview will not take you to the next round.

Sources of Preparation

Search for generic puzzles and practice guesstimates and case studies.

Courses and Certification

No subject as such. But having a business-oriented mindset is a plus.

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Other Relevant Information

You need to convince the interviewer that you really want to be in a managing job and tell stories about where you have shown management and leadership skills in the past. Being confident, keeping a calm mind and thinking logically are the key factors to get this job.





Domain

Civil
and
Chemical

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Sector: Chemical

Name: *Varun Deoskar*(2015A1PS0482P)

Company: Cairn India

Profile: GET (Graduate Engineering Trainee)

Recruitment Procedure

1-Written Test (30 MCQS- 30 minutes, based on core chemical)- Test was easy and based on basic concepts only. No calculations were required

2-Group Discussion

3-Interview (HR + Technical combined)

Questions

a-Tell us about yourself- Use this time to introduce yourself and divert the interview towards the points you would like to highlight

b-Technical Question- Easy to moderately difficult questions covering Heat transfer, Fluid Mechanics, Process Equipment design, Petroleum refining etc. The questions might change depending on the elective you have chosen.

c-HR question- related to tasks or problems you might face in the company and how you will deal with them

Sources of Preparation

1-Do a quick revision of your major subjects (or at least the important ones that you feel confident of).

2-Use online sources to prepare for technical questions.

Other Relevant Information

The interviewers were not looking for people who could remember stuff. They were only interested in the clarity of basic concepts.

Also ask questions, relevant questions show your interest towards the company which is certainly beneficial for a good impression.





Sector: Chemical

Name: *Sumegh Garg* (2015A1TS0521P)

Company: Exxon Mobil

Profile: Analyst

Recruitment Procedure

- Online Test, Group Discussion, Technical + HR Interview
- Test was in two parts – aptitude based (CAT Pattern) and core knowledge based. Test was easy and almost all the students were shortlisted for the next round.
- 30% of students were selected after GD.
- In interview, resume based questions, guesstimates, case study and HR questions were asked.

Sources of Preparation

- TIME Modules for Aptitude.
- Mock GD's and Interviews with Friends.

Other Relevant Information

Prepare well for whatever is written in your resume.





Sector: Chemical, Textile, Power and Paper

Name: *Rahul Singh* (2015A2PS0856P)

Company: Trident Group

Profile: Manager

Recruitment Procedure

- Resume Shortlisting, Group Discussion, Online Psychometric Test, Technical and HR interview
- Psychometric Test was easy. You are given three-character traits of which you have to point out which suits you the most and which suits you least. No right answers, but you should stick to one point of view and try to avoid changing your answers throughout the test. Going to previous question is not allowed.
- Questions:
 - a. The interviewer will look at the core projects and internships done by you and will ask you questions based on that.
 - b. Follow up questions from what you answer. They will try to grill you on your projects but you need to keep calm and answer as effectively as you can.
 - c. This round is followed by HR round where they will ask you generic HR questions. They have a list of questions which they will ask you to write answers to before going for interview. Don't change your answers while the interview progresses.
 - d. When they ask you to tell them about yourself in few lines, avoid telling them your name and branch because they know it beforehand. Try to control your nerves and answer the questions with authority.
 - e. At last they will ask you if you had any question for them. Be prepared with few logical questions.
- Although there is no source of preparing for such interview as it is based on your resume, still I will suggest you that you should prepare for the HR round from material available on DC.





Sources of Preparation

Any resource you can find on HR interview will be useful to you. All the famous HR questions are what they will ask, so, be prepared.

Courses and Certification

They focus on the BIM modelling for civil engineering students. The CPT course which you did in your 2-2 will be your selling point. So, please look at the project work before going for the interview.

Other Relevant Information

They are looking for managers, **period**. That means you must be clear with the basics of the core courses and projects you did. You must remain calm during the interview and answer each question with authority. They give you a chance to drive the interview by answering in a certain way which leads to familiar follow up questions. Be very sure about what you will ask them at the end of the interview, and please ask something, otherwise it leaves you with a bad image. They are looking for people who have a learning from everything attitude, try to show that.





Sector: Civil

Name: *Nikhil Maddipati (2015A2PS0673P)*

Company: Suzlon

Recruitment Procedure

- Resume Shortlisting, Group Discussion, Technical Interview, HR Interview.
- **Group Discussion:** The topics of group discussion were **Coal Cess Increment, Investment of Capital on Space Missions in Underdeveloped Nations**. In the GD they analyzed the communication skills, your ability to give a direction to the discussion and your logical approach to a conclusion.
- **Technical Interview**

The beginning of the interview was about my interests and the reason why I chose civil etc. Later on, it drifted towards the technical aspects.

It is important to build your resume in such a way that the interviewer asks questions on your strong areas of the subject. Structural engineering has always been my strong area as I had worked on the design of structural plans of several high-rise projects in my PS-2.

The PS-2 work and projects in my resume made the interviewer discuss about the lateral load resistance systems for high rise structures.

Question asked in the Interview

- 1) What are the main criteria that are to be taken into account for the design of Machine Foundation?
- 2) Discussion on the modification of Tuned Mass Damper System for High Rise Structures.
- 3) Explain the working of Elastomeric Dampers.
- 4) Why do you want to join Suzlon?

- **HR Interview:**

The questions in this round were about my attitude, ideology and the PORs. Most of the questions were general but some were about my understanding of the technical aspects too, like the Tuned Mass Damper. They were not testing my technical knowledge but they were testing whether my knowledge is textbook based or practically acquired.

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Sources of Preparation: I had explored everything I had written in my resume out of curiosity and interest in civil engineering. The internship in VMS gave me a great opportunity to relate all the concepts I had learned in the college to the practical situations.

Courses and Certification:

Design of Concrete Structures, Design of Steel Structures, Intro to FEM, EQ Resistant design and construction, Analysis of structures, Human Resources Development.





Domain

Consulting

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Sector: Consultancy

Name: *Kush Kanwar* (2015ABPS0649P)

Company: Bain and Co.

Profile: Analyst

Recruitment Procedure

- Resume shortlisting, Case Workshop, written test, Guesstimate, Case Interviews and HR rounds.
- Written test: Included data interpretation questions and writing an executive summary.
- Guesstimates: Typical guesstimates (e.g- market size of premium biscuit industry in India)
- Case Interview: Two cases (profitability and market entry)
- HR: Basic HR questions like Why Bain? , strengths/weaknesses?

Sources of Preparation

Case Interviews cracked, Case in point and Victor Cheng's videos for case studies.

Courses and Certification

No certifications required as such. I had a minor in finance and certification in python.

Other Relevant Information

Be thorough with the case studies. Recruiters look for the approach rather than the final answer.





Sector: Consultancy & Analytics

Name: Sameer Kumar Singh (2014B3A10747P)

Company: Bain Capability Center (BCC)

Profile: Analyst

Recruitment Procedure

Resume Shortlisting → Case Study Workshop → Interview 1 → Interview 2

Resume Shortlisting: BCC follows a very systematic and exhaustive resume shortlisting procedure, unlike most companies. Every resume point (Internships, Projects, PORs etc.) is considered against a points system and your total points are added up. CGPA is not a criterion. Based on the points, resume shortlisting is done.

Case Study Workshop: Takes you through guesstimates and case study interviews. Plus, you find out what BCC and other consulting firms are looking for, in candidates.

Interviews (x2): Interviews would cover guesstimates, market sizing problems, and business situation cases. Beyond this, your resume can be discussed. There is no HR interview round, but you can expect basic questions like “Tell me about yourself.”, “Why Bain?”, “What makes you a good candidate?” and so on.

The interviews will test how structured and logical your approach is to complex problems. BCC is looking for candidates with leadership potential, so conveying demonstrated ability to lead can help in the interview. Ask good questions when you get the chance to ask questions from the interviewer at the end.

Sources of Preparation

Case Interviews Cracked, Victor Cheng Frameworks.

Courses and Certification

None that are directly relevant.

Other Relevant Information

Be confident.





Sector: Consultancy and Analytics.

Name: *Tarush Gupta* (2015A2PS0643P)

Company: Bain and Company

Profile: Analyst

Recruitment Procedure

- Resume Shortlisting, Written Test, Guesstimate Interview, Case Study Interview
- Written Test is non evaluative for the procedure, used sometimes as a tiebreaker/deciding factor for shortlisting. Mostly consists of Data Sufficiency, Data Interpretation and Integrated Reasoning problems along with an executive summary
- Guesstimate Round: Consisted of a typical guesstimate (Example: the amount of detergent consumed in India in a year) and a puzzle. 9 candidates were shortlisted for the final round.
- Case interview and HR round: This round consisted of a business case study (Profitability and Market Entry Cases) and some basic HR questions- Why consultancy? What are the other firms you are interviewing with? Why Bain?

Sources of Preparation

Case Interviews Cracked, Case in Point, Day One for the case studies. Guesstimates: Practice regularly. Logical answer weighs more than the correct answer and the approach is what they evaluate most. Puzzles: <https://www.geeksforgeeks.org/puzzles/>

Courses and Certification

No subject as such. I had a minor degree in finance but it did not help me as such in the interview.

Other Relevant Information

You need to be able to convince the recruiter why you wish to join Bain in particular and not work in some other sector. Connect with the interviewer and be to the point with your answers.





Sector: Consultancy

Name: *Aniruddha Sunil Purekar*

Company: Capgemini India Pvt Ltd

Profile: Associate Consultant

Recruitment Procedure:

Stage 1: Aptitude Test and Verbal Ability Test

Stage 2: IT Aptitude Test

Stage 3: Main Interview

Stage 4: HR Interview

Stage 1 was easy. Stage 2 was objective.

Interviewers were concerned about students not lying in the CV.

HR Interview was not an elimination round.

Sources of Preparation

Interviewbits, sources provided by PU

Courses and Certification

SAPM, DRM, Fundafin, FRAM

Bloomberg Concepts Certificate

Other Relevant Information

The interviewers were looking for candidates who knew what they had done and were honest rather than checking specific skill sets.





Sector: Consultancy

Name: *Karan Jain (2014B5A40873P)*

Company: Capgemini

Profile: Associate Consultant

Recruitment Procedure

- Two online tests, first one - basic aptitude test (very easy) and second one - coding test. Must score 60% in both.
- Pre-Placement Talk
- Two interviews, first one - technical interview with really basic questions regarding your branch, some brain teasers (also easy), explaining your projects and questions if you have any. If you want to get in, it's always a good idea to ask questions to the interviewer to show your interest. Second one - HR Interview, just to fill up some forms and some very general questions.

Sources of Preparation

General aptitude questions, focus on accuracy and speed as the questions aren't very tough.

Courses and Certification

Nothing in particular.





Sector: IT Consultancy

Name: *Sabyasachi Dash* (2015A4TS0341P)

Company: Capgemini

Profile: Associate Consultant, Digital Manufacturing Services

Recruitment Procedure

- 1) Online Aptitude Test- Very easy, almost 60-70% of the batch qualified this
- 2) Online Coding Aptitude Test- Easy. Can be completed with minimum coding skills. Concepts learnt in C Programming in our first year is more than enough (for/while loops, arrays, strings, structures etc.). Also, some basic OOPs
- 3) Technical Interview- Asked me to explain one project from my resume. Asked me some real-life imaginative questions based on that. It can be answered using common sense. Asked me some easy puzzles. Then went on to ask about my PS-1 study project. Didn't grill on any topic, just went through my resume.
- 4) HR Round- It was simple round. If you are sent to HR means you are almost 99% selected. He will ask where your family is from, where did you study, etc. Then he will ask you to sign in some forms, and that's it. You are selected.

Sources of Preparation

C Programming concepts from first year. Some basic OOPs concepts, and an analytical mind.

Courses and Certification

C Programming

Other Relevant Information

We were not asked to solve coding questions, and weren't even asked to code anytime during the process. During the Online Coding Aptitude Test, we were asked to simply debug some easy code snippets.





Sector: C&A

Name: *Saima Rashid* (2015A7PS0004P)

Company: Capgemini India Pvt. Ltd.

Profile: Associate Consultant

Recruitment Procedure:

Online Tests, Technical Interview, HR

Online Tests- The first test consisted of quant, verbal and logical reasoning and technical questions. Those who were shortlisted had to give another test which was technical in nature. It had questions based on data structures and programming.

Technical Interview (50-55 minutes) - It started with general questions like tell me about yourself, why this job etc. Then, there was a deep discussion on my resume, especially my

PS-2 projects. I was asked a design question based on what all I had learnt in the past 6 months. The interview was testing the patience level and the approach used to solve questions.

HR (10-15 minutes)- It was a normal round with the HR asking general questions and whether I had any doubts.

Sources of Preparation

Geeksforgeeks, Book- Data structures made easy

Courses and Certification

No subjects as such

Other Relevant Information

It helps a lot to read the job description and about the company and why you think that you will be a good fit for the job.





Sector: IT

Name: Utkarsh Varshney (2015A8PS0585P)

Company: Capgemini

Profile: Associate Consultant

Recruitment Procedure: Written test followed by Technical and HR interview. Discussion was mostly based upon my PS-2 internship experience and the technical and interpersonal skills I developed there. Interviews were conducted by senior level employees of Capgemini.

Sources of Preparation: Preparation is mostly credited to my active participation in PS-2 web development project. Apart from that, moderate level of HackerRank practice also helped.

Courses and Certification: I have not taken any courses specific to preparation for IT sector.

Other Relevant Information: Aspirants should try to press the HR for detailed information about the onboarding process because not much relevant information has been conveyed since the hiring process. (Posting Location, Schedule etc). Please carry few passport sized photographs, xeroxes of important documents etc.





Sector: Consultancy

Name: Akshansh Sharma (2015A1PS0548P)

Company: KPMG

Profile: Analyst – Shared Services & Outsourcing Advisory (SSOA)

Recruitment Procedure: Online Test, Group Discussion, Technical Interviews

- Online Test

The test contained questions of the following types:

- a) Psychometric/ Situation based
- b) Quant
- c) Verbal

It was an easy test. First 60 questions were psychometric and the rest were from Quant and Verbal, but were mixed and not divided into sections. There was no negative marking. However, going back to a previous question was not allowed. So, the time allotted was more than enough.

- Group Discussion

Group discussion was conducted in groups of 10 students.

- Technical Interview 1

Questions:

- a) Walk me through your resume. Follow-up questions on whatever you answer.
- b) Why consulting? Why KPMG?
- c) A guesstimate – Normal guesstimate question to see your approach rather than the numbers.
- d) A case study – The case question was different from typical profitability or market-entry cases. The company wanted to see how well and logically you can think in an altogether new situation, not just on how well you have prepared.





- Technical Interview 2

This interview was conducted by the whole panel including the HR. Two guesstimates were asked just to see the approach. I wasn't asked any HR questions but other candidates were asked a few, like your strengths, weaknesses and location preference.

Sources of Preparation

Case In Point, Case Interviews Cracked, Victor Cheng for guesstimates and case interview questions.

Practice cases in interview environment rather than merely reading them.

Courses and Certification

No subject as such.

Other Relevant Information

Most job interviews and not just KPMG are FIT based rather than SKILL based. You need to be able to convince the recruiter why you wish to join that particular organization and not work in some other sector.

To answer this, apart from preparing about that one company, you need to know of other job opportunities specific to your profile and then justify why you want that job among all the choices you have.





Sector: Consultancy/ Analytics.

Name: *Rashmila Mitra (2015A5TS0910P)*

Company: Novartis AG Hyderabad

Profile: Associate Analyst

Recruitment Procedure:

Phase 1: Written test.

Test had 2 sections. Aptitude (Quant and data interpretation) and verbal. Time yourself while practising questions since you'll not get a lot of time to solve them. Test level was moderate so time is key.

Phase 2: Resume shortlisting.

Phases 3-6 take place on a single day.

Phase 3: Case study (written)

You will be presented with a case study with 2 options and will be asked to choose the better among the two options. Provide pros and cons of each state return of investment involved in both (simple knowledge in profit and loss will do) and state your choice. Provide a third alternative as recruiters notice your attention to detail a lot here.

Phase 4: Defending your Case (in person interview)

You'll be asked to explain the reason behind your choice in phase 3-state any other reasons that may seem appropriate. You may also be asked to solve certain puzzles, mathematical questions, basic situation-based graph analysis that are common in marketing /commercial fields. Resume based questions may be asked too.

Phase 5: Technical interview

Here, mainly your knowledge in your field will be tested. You may be presented with a basic guesstimate question. Resume based questions.

It is very important to be thorough with your resume as they ask a lot of questions from your field, internships, engagements in fests, etc. **Key factor: if you're not sure about an answer, don't lie. Be honest and agree that you don't know /remember. Interviewers appreciate your honesty.**

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Phase 6: HR interview.

Basic HR questions followed by more resume grilling. Again, be thorough with your resume as most of your interview will be based on your resume. Follow up by asking a question or two about the company /role/their expectations from you. Interviewers appreciate curiosity.

Sources of Preparation

Practise basic guesstimates, case interviews, aptitude questions. Go through case interviews cracked if possible. It's easily available on the Internet in PDF.

Courses and Certification

Nothing specific but basic knowledge in prob Stats, profit and loss is helpful.

Other Relevant Information

Novartis doesn't have a well-defined fit round. However, honesty and ethics is highly regarded among their employees. So be confident, truthful and don't be nervous.





Sector: C&A

Name: Navaneethakrishnan U (2015A4PS0269P)

Company: PricewaterhouseCoopers

Profile: Tech Consultant

Recruitment Procedure

- Resume Shortlisting, Online Test, Interview rounds
- Only students with a CGPA above 7 were eligible to appear for the online test.
- Online Test had 3 sections:
 - a. Verbal
 - b. Data Interpretation
 - c. Quant
- Test was easy. We were able to finish all questions in time.
- The interview was divided into three rounds:
 - Technical round: This involved resume-based questions and some follow-up questions.
 - Business round: This round gives more focus on how acquainted you have been with technology and strategy through your work in college. Know which resume points to highlight during the round, because the grilling mainly happens along those lines.
 - HR: The last leg involved questions such as “tell me about yourself” and “why did you opt for consultancy despite studying so-and-so engineering” etc.
- Questions:
 - a. Tell us about yourself
 - b. Why do want to join this company (very important question; be prepared with an original and convincing answer)
 - c. Questions from resume
 - d. Follow up questions from what you answer previously





Sources of Preparation

Go through key concepts of subjects in resume and speak confidently. They don't expect technical expertise at this stage, they're looking for able communicators. (Of course, technical expertise becomes an added advantage.)

Courses and Certification

No subjects as such.

Other Relevant Information

Most job interviews are FIT based rather than SKILL based. You need to be able to convince the recruiter why you wish to join that particular organization and not work in some other sector.





Sector: Consultancy

Name: *Rishabh Gupta* (2015A2PS0735P)

Company: PwC

Profile: Technology Consultant

Recruitment Procedure:

- Online test, Technical interview, HR interview
- Test had 3 sections:
 - 1) Verbal & Reading comprehension
 - 2) Data interpretation
 - 3) Quant
- Test consisted an equal no. of 15 questions in each section. The test was of medium difficulty, given the time constraint. Verbal section was fairly simple as compared to the other two. It was required to be fast and accurate enough to complete the test.
- Interview questions (technical)
 - a) About PwC
 - b) Internship experience
 - c) Why do you want to go for technology consulting?
 - d) Any prior experience to technology consulting
 - e) What are your expectations of working as a tech consultant?
- Interview questions (HR)
 - a) Tell me about yourself
 - b) Why do you want to join PwC?
 - c) Questions about location preference were asked

Sources of Preparation

General aptitude practice can be done for all the 3 sections. Practice can be done to solve the questions speedily as the questions were simple but need to be solved in the given time constraint. Conventional interview questions can be practised.

Other Relevant Information

Most of the interviews are fit based rather than the skill based. You should be able to show your willingness to learn and work. Customising the resume as per the company and highlighting key points would help.





Sector: Consultancy

Name: *Nithin Raj* (2015A4PS0320P)

Company: Searce Inc

Profile: Cloud Consultant

Recruitment Procedure

Resume Short listing, Online Test, Technical Interview.

Test had 3 sections:

- a. Verbal
- b. Data Interpretation
- c. Quant

Test was easy. However, it is important to maintain speed to finish all the questions.

Technical Interview - Prior knowledge of cloud computing is not necessary. Most of the questions were based on the resume and projects. A couple of puzzles and guesstimates were also asked, which were not that difficult to solve.

Sources of Preparation

- Puzzles from GeeksforGeeks
- Victor Cheng
- Regular practice guesstimates and case studies with friends.

Other Relevant Information

You need to be able to convince the recruiter why you wish to join that particular organization and not work in some other sector. To answer this, apart from preparing about that one company, you need to know of other job opportunities specific to your profile and then justify why this job among all the choices you have.





Domain

ET

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Sector: ET

Name: Prachi Sharma (2015A3PS0278P)

Company: Cisco Systems, Bengaluru

Profile: Physical Design Engineer

Recruitment Procedure

An online test of 1 hour was conducted on Hackerrank which had 20 aptitude and 30 electronics questions. Electronics part consisted of Digital Design, Analog electronics, basic RC circuits, Communication systems and Digital VLSI Design. Time was a key factor as questions were many and some were lengthy. Also, it's important to clear the sectional cutoffs of both the parts- aptitude and hardware. However, I think there was more weightage to hardware, aptitude cutoff is crucial to clear, otherwise they reject you straight. HR checks the final answers. NO CODING QUESTIONS WERE ASKED- they were cool that way.

Some 7 students were shortlisted for the interview rounds from Pilani and 10 from Goa. 1st round was based on my internship experience in ARM as it was very relevant to my profile. I also carried my internship letter with me apart from my resume. Then they saw I had done FSM as one of my academic projects, so they asked overlapping sequence detector and static timing analysis questions. Combinational stuff like priority encoder was also asked. Basically, they didn't make me solve anything completely, they just asked me my approach and they went to the next question. Asked me to write Verilog code of D flip flop and then add set up time in the code. Pretty easy if you are clear with your basics. Some standard puzzles were also asked.

2nd interview was based on my answers in the online test, they got the paper with them and asked me how I solved it last night. They asked me some more of my resume projects in communication and then ADV D CMOS part. Power and timing are important. Nyquist Rate and sampling is important in communications.

Sources of Preparation

Class Notes of DD, Analog Electronics and ADV D are very important. Good to know communication systems and Verilog. Aptitude from indiabix.com.

Courses and Certification

Verilog and Cadence Virtuoso projects.





Sector: ET

Name: *Rishabh Mathur* (2015A8PS0315P)

Company: Cisco

Profile: ASIC Engineer

Recruitment Procedure

- Online Test, Technical Interviews, HR Interaction
- Online test had 2 sections:
 - a. Aptitude (around 20% of questions) (basic math, puzzles, verbal reasoning etc.)
 - b. Electronics (around 80%) - Includes questions from most courses of electronics curriculum (both Digital and Analog courses).

Test is moderately difficult and duration is of 1 hour. There are section-wise cut-offs, so doing sufficient questions from both sections is necessary.

- Technical Interview: Two interviews were taken. Questions panned across all of digital electronics:
 - Projects mentioned in resume
 - PS 2 project (as it was related to Cisco's domain of business)
 - Basic Verilog (behavioural to gate-level synthesis)
 - Digital Design based design questions
 - ADVD based design questions (CMOS technology circuits, Static timing analysis)
 - Theoretical Computer architecture (RISC, CISC)
 - Basic OOP concepts (mentioned in JD, and I had mentioned in my resume)
 - A riddle to test analytical skills
 - HR Interaction
 - i. Had to give an introduction about myself and some questions about family background
 - ii. Was asked about extra-curricular activities in college and expectations from the company.
 - iii. HR representative explained the complete compensation (CTC breakup) and I could clarify doubts about the same





Sources of Preparation

Course lecture slides for all courses are good for brushing up all topics. Weak topics can be done from course books as required. Some ADVD topics (like STA) can also be done from <http://www.vlsi-expert.com/> or similar sources.

Courses and Certification

For interviews, digital courses are important – Digital Design, Microprocessor Programming and interfacing, Analog and Digital VLSI Design. Doing Computer Architecture can be beneficial. Object Oriented Programming is optional.

For the technical test, all the above courses should be done, in addition to other electronics CDCs – Electronic Devices (basics of MOS), Signals and Systems, Control Systems, Microelectronics, Analog Electronics, Power Electronics (basic).

Other Relevant Information

For the online test, clearing section-wise cut-offs is important, so revise electronics well, as well as practice aptitude questions (attempting aptitude rounds of previous IT companies helps). There is no need to attempt all questions – only try to maximize the number of correct answers.

For the technical interviews, the interviewers will not ask difficult questions. They will assess you on your conceptual clarity, so be honest with the topics that you are aware of and can explain, and of those that you can't. Also, if there are any relevant internships you've done (including PS 2) then present your learnings properly as it gives an idea of your engagement with your work to the recruiters. Practice explaining your PS/Internship and academic projects in your resume, and commonly asked HR questions with your friends – it will help you present and structure your answers better.

Other Relevant Information

PS2 work is very significant. Choose PS wisely, remove irrelevant subjects and projects from resume. You should know every word of your resume. 3-4 projects are enough, with your internship experience. Try to impress them with your confidence in subjects, work done and maintain the cool attitude.





Sector: Instrumentation

Name: Akash Aggarwal (2015A8PS0338P)

Company: Gas Authority of India Ltd (GAIL)

Profile: Executive Trainee (Instrumentation)

Recruitment Procedure

- Resume Shortlisting, Interview
- Shortlisted 15 students from EEE & ENI based on the resume.
- Interview was taken by a panel of 6 members of different specializations including a psychologist.
- During interview after starting from my basic introduction, mostly my interview was focussed on the 2 months' time I spent in the power plant during my PS1. Apart from this some questions were asked from PID controllers and some from different measuring instruments.
- Basic questions were:
 - ❖ Tell us about yourself.
 - ❖ Explain your internship project. Cross questioning on my project.
 - ❖ Explain whole working of coal based power plant as you saw during your internship.
 - ❖ What all improvements you suggested during your internship.
 - ❖ What all instruments you saw for flow measurement, level measurement, pressure and temperature measurement. Explain working of ultrasonic level measurement instrument.
 - ❖ A lot of questions related to “Turbine”.
 - ❖ Difference between P, I, D controllers. Which one is faster and when to use which controller.
 - ❖ Some basic question regarding instruments. And follow up questions.
 - ❖ In the end one psychology related question.

Sources of Preparation

- Prepare well your internship project and all the related information. TMT and IIC course book come handy for preparation.





Courses and Certification

- TMT and IIC for ENI students.

Other Relevant Information

- GAIL wants people who are willing to play a long inning with the company. Convince interviewer that you are willing to be a part of GAIL family and won't leave them soon.

You should be thorough with your resume and know each point in depth. Be straight to the point and confident. And even if you are not sure about the answer, tell them your answer with the reasoning why you think it should be correct.





Sector: ET

Name: *Ishan Gupta (2015A3PS0192P)*

Company: GAIL (Gas Authority of India Limited)

Profile: Instrumentation Engineer

Recruitment Procedure

- 1) Resume Shortlisting- The shortlisting was mainly done for students with a CGPA > 8 or having an internship in the field of instrumentation.
- 2) Interview-
 1. There were six members in the interview panel consisting experts from various fields.
 2. The people from HR were also present there only, and there were questions from both technical and HR background.
 3. The interview lasted for about half an hour and questions were mainly from my project in the field of instrumentation.
- 3) Technical Questions-
 - 1) Draw Xor gate using minimum number of Nand gates.
 - 2) Which instruments are used to measure high and low temperatures and mention their principle of working and difference?
 - 3) Explain the working of Venturimeter.
 - 4) Construct voltage and current measuring devices.
- 4) HR Questions-
 - 1) Introduce and tell about your family background.
 - 2) Some basic questions based on the previous question.
 - 3) What steps will you take in order to show your commitment towards the work assigned to you.
 - 4) Are you comfortable to visit different places in India?





Sources of Preparation

- Basics of DD
- Basics of instrumentation, various instruments required to measure different industry specific parameters.
- Questions based on the instrumentation project, eg The type of PLC controller used for the project.

Courses and Certification

- Digital Design
Project Report





Sector: ET

Name: Niraj Kumar Mishra (2015A8PS0402P)

Company: Gas Authority of India Ltd. (GAIL)

Profile: Executive Trainee

Recruitment Procedure:

1. Resume shortlisting
2. Technical interview (this round is also your HR round)

Note: The second round as I mentioned above, will test a lot of aspects of your behaviour. This is also the virtual HR round. Unlike other interviews for private companies, this interview panel will have almost 8-9 people to grill you in various fields. The panel comprises of psychologist (who will constantly monitor your movements, your attitude, your conduct. So beware, be your own self), professors of the respective field, the HR, senior managers etc. They are quite chilled out but the problem starts when you are constantly hurled with questions covering various aspects of technology as well as non-technical stuff.

Sources of Preparation:

1. Be thorough with your physics and mathematical skills. For example, equation of continuity and Bernoulli's theorem in fluid dynamics. So, study fluid mechanics from HC Verma. (Both EEE/ENI)
2. Read TMT course properly. Focus on transducers and sensors and its types. Various temperature, pressure and flow measuring instruments and their pros and cons. Sample problem: what is the working principle of a rotameter? So be thorough with instruments. (ENI only)
3. Read control valves and its types properly in your IIC course. Book: Surekha Bhanot
4. Be thorough with your DD concepts. Sample problem: make a XOR using NAND gate only in the most efficient way (Ans: min 4, don't use 5!). Source: Watch Neso academy videos. (EEE/ENI)
5. Study working of MOSFETs, BJT and regions of operation as well as input/output characteristics. Follow Sedra and Smith for this. (Chapter 3,4,5). (EEE/ENI).
6. SCADA, PLC and DCS differences. Book: IIC by Surekha Bhanot (ENI)
7. Since what they ask is very difficult to predict, so be on safe side and be very sincere with your third-year electronics courses. Best of luck!





Courses and Certification:

1. IIC, 2. TMT, 3. DD, 4. HC Verma

Other Relevant Information:

1. Interview consisting of 8-9 panellists will not only test how good you are at your technical stuff but also how social you are. Ultimately you will have to work in a team, so you should be interactive and polite in nature. Your behaviour is also taken into account.

2. It's not necessary to answer 100% of the questions asked, but it's very important to show sincerity while you answer. They see how much you are trying to get to the answer. So be very good with your basics. You might not remember the names of thermocouples but if you know that it works on the basis of Peltier effect and what is Peltier effect then it is more than enough. So, don't get nervous because you are not knowing the types of thermocouples but be happy because you know the main principle on which thermocouple works.

3. The key again is no matter how tough the questions are, you are supposed to be strong. Show positive intent and confidence in your voice.

4. Not necessary that you speak English all the time, switch your conversation to Hindi time to time. (It works!). Believe me they would love to talk to you about stuff in Hind

5. *The psychologists will bowl bouncers and googlies in between but make sure that you are diplomatic and centre your answer to your interest in the job.

So, let me share some questions. (Related to *5th point)

i. What extent can you go to get this job? - Don't know that but given the kind of financial and job security this company provides, I shall stay here forever if given a chance, given I am not going for MS/MBA.

ii. Is this job your need/want? - before coming to the presentation it was just a want as it is aligned with my interest but after the presentation and hearing to the perks of the company, now it's kind of attracting me a lot.

6. Read about the company.





Sector: ET

Name: *Shah Shrey Amiya* (2015A3PS0018P)

Company: Grey Orange India Pvt. Ltd.

Profile: Embedded Engineer

Recruitment Procedure

- Resume Shortlisting
- Online Test - Consisted of 3 coding questions.
- Technical Interview- There were two panellists for the technical round. They started the interview with the standard question- Tell me about yourself. What all have you done with microcontrollers and microprocessors. If you have done any projects with Arduino, then it will be a plus point. The knowledge of concepts of ADC, DAC, op-amps were thoroughly checked. They also ask various questions related to microprocessor and interfacing with various peripherals of x86. Apart from this they will also test your concepts of C Programming, not just the application aspect but also the theoretical aspects what, why, how basic functions (for e.g. - malloc) and keywords (for e.g. static, const) are used. Lastly, they inquired about the projects done during internships.
- HR Interview- The interviewer asked about my family background, general HR questions like why did you choose this field? What do you know about the company? And so on.

Sources of Preparation

Course Material for the CDC's will be sufficient. Be thorough with Microprocessors and Interfacing, working of Op-amps. For the interview, you need to revise all the basic concepts of C programming from first year. You need to be clear with all the concepts of basics programming till Linked Lists at least.

Courses and Certification

None

Other Relevant Information

From my experience, I would say that rather than checking whether you are thorough with all the aspects, they checked my thought process and how I answered all the questions. It's okay if you do not know the answer to the point, try it. It's important to have confidence in whatever you know, take your time, think about the answer and answer accordingly.





Sector: ET

Name: Harshit Arora (2015A3PS0184P)

Company: ST Microelectronics

Profile: Analog Design Engineer

Recruitment Procedure

- CGPA Cut-off (7), Test, Technical Interview (2 Rounds), HR
- The test consisted of 35 questions and the time allotted for the test was 1hr 30mins.

No Negative Marking

- Test had 2 sections:

1) First Section consisted of 20 questions of 1 mark each. This section contained a mix of quant and easy to moderate level electronics questions.

2) Second section consisted of 15 questions of 2 marks each containing moderate to advanced level electronics questions.

Test was **not** easy by any means and one had to be quick and thorough with his/her basics to do well in the test.

- Technical Interview:
- In the first technical interview, I was asked to solve some of the questions from yesterday's test. Basically, since in the PPT we were told to avoid making any guesses in the test, they wanted to see how I had arrived at any answer.
- The second technical interview consisted of questions from microelectronics and RC circuits. The questions started at a very basic level and got tougher as the interview progressed. The interview was mostly concept based rather than calculation oriented and tested how strong your basics are.
- HR Interview :
- The HR interview was a really general interview in which I was asked about my interests, family, future plans, and life in Bits etc.
- One question was also asked from the PPT (just to see if I was attentive in the PPT or not)

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Sources of Preparation

- Subjects/Topics that I prepared for this company -
- Digital Design , source : Morris Mano
- Microelectronics ,source : Sedra Smith
- Analog Electronics, source: Sedra Smith
- ANALOG ICs , source: Sedra Smith
- Digital VLSI Design, source: CMOS VLSI Design, A Circuits and Systems

Perspective - Neil H. E. Weste& David Harris.

- RC Circuits : <https://www.electronics-tutorials.ws/>

Other Relevant Information

You need to be thorough with **Sedra Smith** if you want to sit for any Analog company.

Just be honest in your interview and don't try too hard to impress the interviewer. Also, think clearly before writing anything in the interview as it helps to avoid silly mistakes.

Also, be attentive in the PPT of the company.





Sector: ET

Name: Digvijay Bansal (2015A3PS0187P)

Company: Synopsys

Profile: Physical Design Engineer

Recruitment Procedure :

Online Test, Technical Interview - I, Technical Interview – II (HR Combined)

- **Online Test:** There were 51(10 Aptitude + 41 Hardware) questions to attempt in 90 minutes. Most questions were from Digital Design, ED (MOSFET Characteristics), ADVD (Inverter, Circuit Topologies, and Timing Analysis), Analog Electronics, and Verilog Snippet Output.
- **Technical Interview – I:** Interview was focused on; PS – II Project (Revise Thoroughly), Verilog Coding, Sequential Circuits (IMP.), MOSFET Characteristics (Second Order Effects), Static Time Analysis (Theory + Waveforms), ADVD (NAND & NOR Implementation), 1 Puzzle.
- **Technical Interview – II:** Interview started again with PS Project, moved ahead with SRAM & DRAM questions, Sequential Circuits (FF & Latch Differences, Master Slave Configuration), Static Time Analysis, CMOS Inverter Characteristics & Derivation, Digital Design (Combinational Circuits), Finite State Machine (Implementation Question)
- **HR Questions:** Why Synopsys? Where do you see yourself in 5 years? Why not higher studies? Any location preferences?

Sources of Preparation:

- Digital Integrated Circuits (ADVDD) - Jan M. Rabaey.
- Digital Design - H. Roth (Sequential Part is Excellent), Neso Academy YouTube Channel for quick reference.
- Static Time Analysis: YouTube Channel (VLSI System Design)

Courses and Certification:

- Digital Design
- Analog & Digital VLSI Design
- Analog Electronics
- Computer Architecture





Other Relevant Information:

- Be thorough with what has been mentioned in Resume (Specially PS – II Project)
- Start Preparing for Interviews in PS – II around mid of October, Keep making short notes for last time revision.
- Focus more on Digital Design, in that Flip Flops, FSM and Gate conversions in Combinational.
- Placements are very hectic for Circuit branches, especially for ones targeting for ET, keep a continuous revision during that time.

Read the Job Description and about the company before going into the interview.





Sector: ET

Name: Niyati Agrawal (2015A8PS0468P)

Company: SYNOPSYS

Profile: Physical Design Engineer

Recruitment Procedure

- Resume Short listing, online test, Technical Interview, HR interview
- Test was from hostel-room, and it had 51 questions (time limit- 1.5hrs)
 - Topics involved were- Aptitude, technical comprehension questions, communication systems, flip-flops, digital design, op amps
- Technical interview-
 - Know everything that you have stated on your resume- the frequency of clocks used, the software involved and also, how would you evaluate the working of your design

Some questions that were asked are-

- Design Logic circuit- in digital as well as using analog circuits
- How to make a counter and shift registers?
- Differentiate between latches and flip flops, and discuss their use cases?
- How to find fault in a logic circuit in an efficient manner?
- How to ensure signal integrity?
- In what ways, is a CMOS better than a BJT?
- What is the difference between 3G and 4G?
- Is optical communication better than normal signal transmission? If yes, why?
- Application based- LRC filters- which one to be used in a given case?
- Sketch characteristics of Gate capacitance vs Voltage at gate for a p-MOS
- Second interview- It was mainly HR, but he also asked a few questions related to CMOS fabrication and software that are used generally in the field.
- HR questions-
 - Explain using a flow chart the processes you think are involved in physical design.
 - Elaborate on what you understand about the process of testing.
 - Why do you want to join Synopsys?
 - Where do you see yourself in the next 5 years?

Sources of Preparation, Courses

Geeks for geeks, Glassdoor, majorly coursework and slides

Digital design, communication system, Analog electronics, Microelectronics

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Other Relevant Information

Most core interviews will test your skill in a certain field of your coursework so know the basics and revise them well. In an interview, whenever possible try to narrate what you have done in any project or internship, in a manner that identifies well with the position they are hiring for. For example- the software they are using, or the processes involved. Read extensively about the work of the company and the job description. Stay confident.



Domain

IT

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Sector: IT

Name: Prabhat Kumar Singh (2014B5A30600P)

Company: Amazon

Profile: DevOps Engineer

Recruitment Procedure

- Online Test (Coding Test + MCQ)
 - First Question was similar to this - Given arrival and departure times of all trains that reach a railway station, find the minimum number of platforms required for the railway station so that no train waits.
 - Second Question was - Given all the points of a n-sided polygon in anti-clockwise order you need to find the co-ordinates that are integers and inside the polygon
- Technical Interview 1 (40 mins)
 - Given 10^9 co-ordinates find the K nearest co-ordinates from origin
 - Minimum number of bracket reversals needed to make an expression balanced
 - Implement the Heap data structure
 - He asked me to write a pseudocode code for all the problems
- Technical Interview 2 (1hr)
 - Minimum time to shift given weight boxes from one position to other when capacity of machines are given
 - Merge k sorted arrays
 - He asked me to write a neat pseudocode for all the problems
- Technical Interview 3 (1hr)
 - Asked me questions on OS, OOP
 - Implement the LRU caches
 - Count the number of ways to tile the floor of size $n \times 3$ using 1×3 size tiles. I gave the solution in $O(n)$ time complexity and $O(1)$ space.
- Hiring Manager Round (40 mins)

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- Implementation of Tic-Tac-Toe game
- Basic HR questions, what technologies did you learn in last 3 months, why IT, discussion on my resume, strengths, weaknesses, motivation in life and scenarios in workplace and how to deal with them

Sources of Preparation

Geeksforgeeks, InterviewBit

Courses and Certification

OS, OOP and DSA





Sector: IT

Name: Rudrakh Panigrahi(2015A3PS0289P)

Company: Amazon

Profile: Software Development Engineer

Recruitment Procedure:

- Online test (GPA cutoff 6), Technical Interview Rounds(3 rounds), Resume Interview Round
- The online test had 2 coding questions and 20 technical aptitude questions:
 - Largest sum contiguous array using kadane's
 - Number of lattice points inside the polygon
 - Technical aptitude questions (Data Structures, OOP, OS, Networks) - questions focused on basics.
 - The online test was easy to qualify as 1 coding question and a decent score in technical aptitude was enough.
- The first two technical interview rounds focused solely on data structures and algorithms. Questions asked were based on binary search, BST, linked lists, trees and heaps.
 - Design a linked list to obtain the middle element in constant time.
 - Efficient design for querying string with the maximum frequency given a stream of strings (heaps)
 - Given an array of integers, find the largest integer that can replace all the elements such that the new product of elements of array is less than the original product. (Binary search)
 - A random shuffling algorithm for an array given a random number generator.
- The third technical interview was testing concepts in OS, OOPs and Networks, primary focus being OS.
 - Design an efficient LRU cache page replacement algorithm using appropriate data structures. (heaps/linked lists/hash tables).

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- Semaphores vs Mutex, Critical section problem. The interviewer was stressing more on examples rather than the concept.
- TCP vs UDP
- OOP vs Procedural programming
- The final round focused on the resume and interests:
 - deadlocks and its effects, prevention, detection etc.
 - DDoS attacks
 - Client-server model
 - Maximum subarray product
- No HR round/puzzle round.

Sources of Preparation:

Regular practice on codeforces (or any other platform) and revision from GeeksForGeeks and InterviewBit would suffice.

Courses and Certification:

OOP, OS, Design and Analysis of Algorithms (Online), Fundamentals of Computer Networks (Online)

Other Relevant Information:

Interviews and online test were focused on data structures and OS (may depend on branch). Importance assessment based on test and interviews: DSA>>OS, OOP>Networks>>DBMS.





Sector: IT

Name: *Shaleen Mundra* (2015A3PS0804P)

Company: Amazon

Profile: Software Development Engineer

Recruitment Procedure

There was an **online test** which had 20 MCQs on DSA, OS, OOP, DBMS, Networking. After that 30 students were shortlisted for **interviews**.

Interview had 4 rounds - 3 technical, 1 technical cum HR.

Round 1: Two questions on vectors and one on BST.

Q.1.: Given two vectors(A&B), tell if it is possible to swap one element from A with an element from B and make the sum of elements in both vectors equal.

Q.2.: “Coin game of two corners” - a typical DP problem.

Q.3.: Given a BST, replace every element with sum of all the elements greater than it.

Round 2: One question on binary trees, one on vector and maths.

Q.1.: Given a binary tree, return the max depth of a left node (left node is any node which is a left child)

Q.2.: Given a list of songs and a random number generator, return a shuffled playlist.

Round 3: Two ques.

Q.1.: Given a number ‘n’ and another number ‘k’, tell if it is possible to form ‘n’ by adding ‘k’ number of powers of 2. (repetitions are allowed). For example: n=9, k=3 || return 1 (9 = 4+4+1, i.e. 9 can be formed by adding 3 powers of 2).

Q.2. : Given ‘n’ vectors of different sizes and a number ‘k’ , return maximum possible set of 3 numbers (each number should be from different array), in which difference of maximum and minimum of the 3 numbers is less than k. (Tough Problem, needed to clarify a lot of cases with the interviewer for this)

Round 4: Behavioural Questions, questions on resume, internships, extra curriculars, etc.





Q. Tell me about yourself.

Q. Is there anything for which you have received criticism in past year?

- Tell them something and do not directly say, “No, there is nothing wrong about me.”

1 technical Problem on linked list

Q. Merge two sorted linked lists. (Very common question).

Sources of Preparation

I did OS and OOP in college and prepared for DSA through INTERVIEWBIT and GEEKSFORGEEKS. I revised OS and OOP through gfg and YouTube lectures.

Read the book Cracking the coding interview if you get time.

I also read a pdf - “64 toughest interview questions” - it mostly contains behavioural questions though.

Courses and Certification

OS, OOP

Other Relevant Information

- Be sincere in your preparation, it will take at least 3-4 months rigorous practise if you want to make it in Day 0 or Day 1.
- Practise previous year problems specific to the company from gfg, it will help a lot.
- Be prepared to answer “tell me about yourself” , this was asked in all rounds but I answered casually in first three as per the need of the interviewer. The fourth round seemed like HR so there I answered whatever I had prepared for that question.
- Solving a problem in an interview is not the only criteria they judge by, so be smooth and cool in your approach as you drive towards the most optimal solution. (maybe start with brute force approach wherever possible). I wasn’t able to reach to the actual solution in both questions in my third interview but still got selected, so don’t stress if you are stuck. Just don’t quit and move on.
- I was asked about DBMS and networking stuff in one interview to which I openly stated that I have no knowledge of them and interviewer was cool about it. Don’t fake anything and be honest in whatever you have done.

Little unconventional side note - Read books and if possible, read them loud, it will help improve your conversation skills and personality. I can surely say that matters a lot while facing an interviewer.





Sector: IT

Name: Utkarsh Sirpurkar (2014B4A80785P)

Company: Amazon

Profile: Software Development Engineer (DevOps Engineer)

Recruitment Procedure

- Online test, technical interviews
- The online test was conducted on **HackerEarth** platform.
- Test had 2 sections:
 - **20 MCQs** based on data structures and algorithms and basics of OS and OOP
 - **2 Coding questions**
- MCQs were quite easy involving only the basics of DSA, OOP and OS like traversals involved in binary search tree, some code outputs, page faults, etc.
- 1st coding question was a mathematical one involving Pick's theorem and was quite tough to solve without prior knowledge.
- 2nd coding question was about minimum number of landing points required at airport given arrivals and departures of flights. (similar to <https://www.geeksforgeeks.org/find-k-bookings-possible-given-arrival-departure-times/>)
- 30 students were shortlisted for interviews. There were **4 Technical interview rounds and no HR round**
- All the rounds were mostly based on DSA only and very few concepts related to OOP, OS and DBMS were asked.
 - **Round 1:** 2 questions based on DSA were asked. All those who answered both qualified for round 2.
 - 1st question: Find the first occurrence of 1 in an infinite array of 0's and 1's where first x elements are 0's and all the following elements are 1's. I already knew this one as same question was asked in interview at BITS Goa.
 - 2nd question: Given an n-digit number, find its next permutation (immediately greater).
 - **Round 2:** The interviewer had a brief look at resume, asked about experiences in college and prior internships. It was only a minor part and didn't play much role in evaluation.
 - Only 1 question was asked: Given courses and their pre-requisites, find if it's possible to take them (finding deadlock).
 - **Round 3:** 2 DSA questions again.
 - 1st question: An input stream of numbers is given and it stops at any random point of time. At the stop moment, find the first unique element (which has not been repeated) from existing elements in O(1) time.

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- 2nd question: Given n rods, weld those n rods together where welding of each pair of x & y rod costs $x+y$. Minimize the cost. (Greedy algorithm + implementation) $O(n \log n)$.
- **Round 4:** Interviewer asked basics of OOP (4 Pillars) and also about Normal forms (DBMS).
 - Not being from CS background, I didn't know DBMS and he didn't mind it.
 - He then asked me what I thought was my strength in DSA and asked me a question on that.
 - Question was based on arrays: Merge two sorted arrays of lengths m and n into m (m has extra n empty space) in $O(m+n)$ time and no other extra space.
- 5 students received offer at the end of these 4 rounds.

Sources of Preparation

- DSA video lectures (IIT Delhi NPTEL)
- Interviewbit for practice
- GeeksforGeeks for company specific questions and interview experiences

Courses and Certification

Discrete Mathematics, Graphs and Networks, OOP, OS.

Other Relevant Information

Resume and CGPA didn't play much of a role in this process. The selection was purely based on the questions asked and nothing else. So if you don't have an impressive resume/ cgpa but are genuinely interested in a good IT company then this one's for you.

Also, even if you're unable to solve the given interview question in first go, keep trying and do let the interviewer know about your thought process. They help along the way and your thinking counts.

OOP, OS and DBMS do play some role (variable) so it's advisable to be thorough with the basics.

Lastly, don't just look at solutions of interviewbit and GeeksforGeeks, try to solve the questions. Attempting same questions again and again also helps strengthen and improve thinking.





Sector: IT

Name: Neil Wilson (2015A7PS0074P)

Company: Arcesium

Profile: Software Engineer

Recruitment Procedure

- Online Test (No CG cut-off), 3 rounds of Technical Interviews, HR Interview
- Online Test was conducted in Hackerrank. It was of 1:15 mins and had 3 sections.
- Quantitative aptitude: 15 questions to be solved in 15 mins
- Technical aptitude: 15 questions to be solved in 15 mins
- Both sections had ¼ negative marking and sectional cut-offs.
- Coding: 2 questions, 45 mins. 1st one was on LCM and 2nd on DSU.
- Technical Round 1: I was asked a lot of questions on OS and DBMS concepts. Explain indexing, why and when is it helpful, differences between processes and threads. He then asked me a coding question: <https://www.geeksforgeeks.org/look-and-say-sequence/>
- Technical Round 2: Questions on OS and OOP were asked. He asked me to explain virtual memory, thrashing, Belady's Anomaly, when does it occur, how to prevent it. From OOP he asked me questions on polymorphism, do virtual constructors and destructors exist, when are they used? After that he asked me 2 coding questions.
 - Q1: Given weights from 1 to n what is the minimum number of weights that you need to generate all weights from 1 to n ($1 \leq n \leq 1e20$). He expected an $O(\log n)$ solution.
 - Q2: Find if cousin nodes are present in a binary tree. Cousin nodes: Nodes on same level but belonging to different parents.
- Technical Round 3: He asked me my favourite subject. I said DSA. He asked 2 coding questions.
 - Q1: Solve a 9*9 sudoku puzzle. Simple backtracking-based solution with minor optimisations was enough. He expected you to write an easy to understand modular code.
 - Q2: Find the hamming code of a given frequency distribution.
- HR Round: Standard HR questions like strengths, weaknesses, aspirations. Why Arcesium?





Sources of Preparation

Codeforces, Codechef, SPOJ, Hackerrank, Interviewbit and GFG for last minute preparations and subject revisions.

Courses and Certification

None is significant enough to be mentioned here.

Other Relevant Information

- Revise all the key concepts from OS, OOP and DBMS. Also make sure that you know all the basic questions on linked lists, trees and heaps.
Practice writing code on paper.





Sector: IT

Name: Sarvagya Aggarwal (2014A3PS0215P)

Company: Arcesium

Profile: Software Engineer

Recruitment Procedure:

Online Test, 3 Technical Interviews, 1 HR Interview

Online Test had 3 sections - Aptitude, CS MCQs, coding

- Each section had a time limit. 15 minutes for Aptitude and MCQs and 45 minutes for coding section.
- MCQs were based on DSA, OOP and DBMS.
- Coding section had 2 very easy problems -
- 1. Two players are playing a game on a number line with points 1 to N ($N \leq 10^9$). First player marks all the points which are multiples of X, and the second player marks all the points which are multiples of Y. You had to find the number of marked points in the end. ($N / X + N / Y - N / \text{lcm}(X, Y)$).
- 2. Don't remember the exact statement but it was based on finding the sizes of each connected component in a graph.

22-23 students were selected for the interviews.

I was mostly asked coding questions in all the 3 technical interviews, there were some questions on OOP and DBMS too though. They also focused on a lot on my resume and my internship project.

Coding questions asked were fairly easy and standard.

First round:

1. Check if a given number is a power of two or not (bitwise solution)
2. Number of root to leaf paths in a binary tree that sum up to a given number (normal traversal)
3. Given 2 linked lists one sorted in increasing order and the other sorted in decreasing order, merge them
4. Design a queue using two stacks.

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Second round:

1. Given an array, find the length of the longest arithmetic progression subsequence
2. Search in a sorted linked list (better than $O(N)$ expected, HINT: skip lists)
3. Given a dictionary of words, find if a given word is present or not (lot of discussion on trie)
4. Standard OOP questions, what is polymorphism, observer pattern
5. Little bit about DBMS, how exactly does indexing work etc

Third round :

1. Abstract questions on concurrency, OS knowledge was enough to answer them.
2. Given an array, find the length of the shortest subsequence that sums up to X (later also recover the subsequence)
3. This round was with a senior guy and he mostly asked about my resume.

Final HR round had the standard questions - Why arcesium, goals in life, why the low CGPA etc

Sources of Preparation:

Codeforces, Codechef, Topcoder , Hackerrank for competitive programming (DSA). Lecture slides for OOP and DBMS

Courses and Certification:

DSA, OOP, DBMS

Other Relevant Information:

Read up about the company a day before the interviews. Also, its fine if you are only strong in one of the courses mentioned, you don't need to be a jack of all trades, be a master of one.





Sector: IT

Name: *Naved Nagi* (2015A7PS0002P)

Company: Bank of New York Mellon

Profile: Senior Applications Developer (International Profile)

Recruitment Procedure:

Online tests, technical rounds and HR round

- **Online test:** There were 5 coding questions divided into sections – 1 Easy, 2 Medium and 2 Hard. You needed to do at least 4 out of 5 questions to go to the next round.
- **Technical Interviews:** There were a total of 3 Technical Interviews.

Tech 1 - Was mostly a coursework related interview. I was given to explain how memory allocation happens in C, C++ and Java and how are they different in each of these languages. I was given a few DSA related questions and 2 Dynamic Programming problems to code in pen and paper. After that the interviewer asked OOP and OS related questions. He asked about Design Patterns, Deadlocks and Process Handling. Finally, the first round ended with a question on Networking (DNS routing).

Tech 2 – This was mainly a System Design round. I was first asked to just introduce myself and briefly talk about my projects, the interviewer then went straight to the questions. I was given two design systems. First one was to design a stock market system to handle multiple requests from multiple clients simultaneously. The second was to design a Rule Parsing and Evaluating System.

Tech 3 – Was a telephonic round where we talked in depth about my resume – Projects, Interests, etc. and was asked to give my insights on a few technological problems. This round was more of a way to judge my awareness about technological advancements than just plain knowledge. We also talked about why I took certain steps in my Projects and their outcomes.

- **HR Interview:** This was the simplest round. A few questions about family, aim in life, etc. No ‘special’ preparation is needed for this round. Just be honest about whatever is asked.

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Sources of Preparation:

InterviBit and GeeksforGeeks are your Bible. 10 days before interviews just brush up on CS Fundamentals. Keep calm and answer questions, don't guess around if you don't know the answer, it's always OK to ask for hints.

Courses and Certification:

Nothing as such. Just know your Fundamentals.





Sector: IT

Name: *Pranjal Sarin (2015A4PS0344P)*

Company: CGI

Profile: Software Engineer

Recruitment Procedure: Online test, technical round, HR

- The online test had four sections: Verbal Ability, Quantitative, Coding, CS MCQS.
- The questions were easy except for CS MCQS section which had a few tricky questions (related to OS)
- The technical round had questions based on your resume, projects, OOP and DSA concepts
- The HR round had standard HR questions like “tell me about yourself”

Sources of Preparation: Interview bit, OOP/OS from study tonight

Courses and Certification: OOP , DSA

Other Relevant Information: Technical questions and the topics and projects listed on the resume should be prepared really well. Companies don't just focus on competitive coding. At times, they give a lot of importance to technical knowledge and topics listed on your resume.





Sector: IT

Name: Prasanth Priyan (2015A4PS0311P)

Company: CGI

Profile: Software Engineer

Recruitment Procedure:

- Round 1 – Online test: Concepts and MCQs
- Round 2 – Written coding test: A number of questions varying in difficulty and marking.
- Round 3 – Technical interview
- Round 4 – HR interview
- Round 5 – Technical+HR interview

Sources of Preparation: Basic coding prep – InterviewBit, GeeksforGeeks etc., practicing in C++ and going through theoretical concepts.

Courses and Certification: Nothing as such.

Other Relevant Information:

You should to be able to convince the recruiter why you wish to join that particular organization and don't want to work in another sector.

To answer this, apart from preparing about that one company, you need to know of other job opportunities specific to your profile and then justify why this job is suitable among all the other choices you have.





Sector: IT

Name: *Suhail Khan* (2014B1A10221P)

Company: CGI

Profile: Software Engineer

Recruitment Procedure

- **Online Test:**

Test was on Co-cubes and had General aptitude questions, some coding MCQS and two coding questions (one was on to print different patterns).

- **Technical interviews:**

Both Interviews was mix of question on your projects, internships and question based on your introduction. Some question was also based on basic DSA, OOP and SQL.

- **HR round** consist of generic HR questions.

Sources of Preparation

- Basics of OOP and SQL from Studytonight.com.
- Coding Practice from Interviewbit and Geeksforgeeks.
- Aptitude practice from Indiabix, Placementseason and Geeksforgeeks.

Courses and Certification

OOP, SQL, DSA.

Other Relevant Information

Company don't just stress on competitive coding. They give a lot of importance to technical knowledge and topics listed on your resume. I have mentioned about Machine Learning, Block chain and Web technologies on my resume, interviewer majorly asked me about these in technical interview.





Sector: IT

Name: *Utsav Lalwani* (2015ABPS0738P)

Company: CGI Group

Profile: Software Engineer

Recruitment Procedure

- Online Test, Technical Interview, HR Round
- Test had 5 sections:
 - Data Interpretation
 - Verbal
 - Quant
 - Logical Reasoning
 - Coding Section
- Test was easy but speed was very important. Every section was timed and changing of sections and going to previous questions was not allowed.
- Also, we had to send two videos, one giving candidate's introduction and other describing his/her role model. These videos were used by HR before the HR round.
- In both the Technical interview as well as the HR, we were expected to be thorough with our resume even if it was non-IT related work.
- In the end, it was all down to whether one is showing willingness to learn new stuff or not.

Sources of Preparation

Geeksforgeeks (for coding questions), friends placement (an online aptitude test series by BITS)

Courses and Certification

No courses in particular as such, though knowledge of DSA and OOP would help.

Other Relevant Information

- Be thorough with everything written in your resume and confidently explain everything asked.
- Read about the company before the process so that you can keep the conversation going.

Show willingness to learn new things as and when required.

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Sector: IT

Name: Adit Aggarwal (2014B5A30822P)

Company: Citi Bank

Profile: Analyst

Recruitment Procedure

- Online Test, Technical Interview, HR
- Test had 4 sections:
 - a. Verbal
 - b. Data Interpretation
 - c. Quant
 - d. Coding
- Test was easy. Those who did not do the coding question were also shortlisted.
- Questions (Technical Interview)
 - Tell us about yourself
 - Follow up questions from what you answer
 - 1 simple coding question

Sources of Preparation

Geekforgeeks, Interviewbit

Courses and Certification

DSA and OS are helpful





Sector: IT

Name: Ashwin Gupta (2014B4A40567P)

Company: Flipkart

Profile: SDE

Recruitment Procedure:

1. Online test: 3 questions. First was Balance Paranthesis, others I do not remember but one of them required creating different maps.
2. **Interview round 1:** DSA round. Questions asked were next greater number, path from one node of a tree to another node, house robber (dp).
3. **Interview round 2:** DSA round. Two questions were asked.
 - At $t=0$ all the leaf nodes are burned, print them and then at $t=1$ print the new leaf nodes and continue it till only root is left. Tree cannot be modified (node cannot be actually removed).
 - A book has many repetitive words. Print top k recurring words. Trie based approach.
4. **Interview Round 3:** Hiring manager round. He asked about me, my resume. Told me about himself, asked me which team I will be interested in.

Sources of Preparation: Interview Bit and GeeksforGeeks(Tree and graph)

Courses and Certification: None

Other Relevant Information: Go through interview experiences on gfg, it's highly likely you will get repeated questions.





Sector: IT

Name: *Mayank Mundada (2015A7PS0149P)*

Company: Flipkart

Profile: Software Developer

Recruitment Procedure

- There was an online test followed by two technical rounds, and then a hiring manager round.
- Online test had 3 coding questions, of increasing difficulty. The time allotted was 90 minutes, on HackerRank platform. The questions were:
 - Check if a string containing all types of parentheses is balanced or not
 - Increment elements of an array till all elements are unique and sum of all elements is minimum. Constraints: $1 \leq A[i] \leq 300$; $n \leq 2000$
 - Find nearest neighbouring city which shares the same x/y co-ordinate for every query (which is a city name).
4 arrays: [c] cities, [x] x-coordinates, [y] y-coordinates, [q] queries.
Output the name of the nearest city, if two cities are equidistant output the lexicographically smaller one. If no city satisfies the above criterias output NONE.

People who solved 2 questions completely and the third partially were called for interviews. Total 22 were shortlisted, and 19 were waitlisted.

Technical Round 1: The interviewer says at before the start of the interview itself that the technical rounds are expected to test your data structures and programming skills knowledge, and gives you 2-3 questions which you are also expected to write a pseudo code for

- First question was to find the shortest path between any two nodes of an unbalanced binary tree. While writing the pseudo code I used vectors, so the interviewer asked me the advantage of a vector, and how would I write a vector in C. He then told me to design a data structure which supports deletion in $O(1)$ time.
- The second question was that you there are n houses with money in them and a robber can rob only non-adjacent houses. We need to find the maximum money that can be robbed. It was basically the dp problem of finding maximum sum of non-adjacent elements of an array
- People who were not able to think of an approach for both questions were not called for further rounds, and at the start the rate of rejection was high so the waitlisted students were being called.





Technical Round 2: Second round was the same as first round and two questions were asked. First was the jumping numbers problem

<https://www.geeksforgeeks.org/print-all-jumping-numbers-smaller-than-or-equal-to-a-given-value/>

Second question was the two player game

<https://www.geeksforgeeks.org/optimal-strategy-for-a-game-dp-31/>

Hiring Manager Round: After the round 2 I was directly sent to the HM. The was a senior person with 20 years of work ex. He said at the start of the interview that it will mostly be a non-tech round, and it was completely non-tech. He was mostly interested in knowing about you and seeing how good you would fit in the company. He started by asking me to talk about my complete journey before even I came to BITS. The interview was around 35-40 minutes and it was mostly me speaking about my interests and my internships. The HM then asked me about my PoRs and how well I work in a team and why did I chose Flipkart. He finally asked me to rate myself in my proficiency in C, C++, Java. After the round the HR informally told me outside that they are taking me.

Sources of Preparation

InterviewBit, GeeksForGeeks, HackerRank

Courses and Certification

DSA

Other Relevant Information

Make sure you discuss your approach with the interviewer first. If you think you are going along the wrong path you may ask the interviewer. Also practice paper coding and writing clean code in first attempt as the placement season nears.





Sector: IT

Name: *Mudit Chandaliya (2015A8PS0484P)*

Company: Flipkart

Profile: Software Development Engineer (SDE – I)

Recruitment Procedure

- Coding Test, 2 Technical Interviews and 1 Hiring Manager Interview.
- Coding Test - There were three questions, standard Data Structures, and Algorithms based. It was held on Hackerrank.
- Technical Interview – The interviewer made it clear that there will be two questions to be solved in stipulated time at the start of both the interviews. The theme of both the interviews involved solving the questions and optimizing it further to get the best outcome then writing their pseudo-codes. The questions were related to Dynamic Programming, Trees and Graphs with some basic data structures involved.
- Hiring Manager Interview – The interviewer asked me to give an introduction of myself and then further asked me questions based on my resume, related to projects, courses, PORs. He asked me about my BITSian life and was trying to judge me how I perform in a team and what are my motivations to join Flipkart.

Sources of Preparation

Interviewbit, Geeksforgeeks

Courses and Certification

DSA, primarily

Other Relevant Information

Just present your ideas and doubts and solve the problems together. I also advise you to write beforehand answers to your introduction, weakness, strengths, why should we hire you, why this company, challenges faced in projects how you solved them and similar such questions to crack the hiring manager round.

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Sector: IT

Name: Siddhant Thakuria (2014B1A30466P)

Company: Flipkart

Profile: SDE

Recruitment Procedure

- **1st round-online coding test**
 - Consisted of 3 coding questions-easy,medium,hard
 - Platform used- hackerrank
- **Interview round 1(Technical interview)**
 - 2 coding questions were given.
 - Duration-30 minutes
- **Interview round 2(Technical interview)**
 - Duration- about 45 minutes
 - 2 coding questions were asked.
- **Interview round 3(Hiring manager round)**
 - Mostly the questions were asked from my resume. I am sharing some of the questions which I remember.
 - Asked me why and how I got started with engineering
 - Explain ps1 and ps2 projects?
 - Explain any project which you find interesting?
 - Asked me to rate my skills (for the programing languages which were mentioned in my resume)
 - You are Biological Sciences and EEE student. Why do you want to work in software domain?
 - Why Flipkart?
 - Any questions from your side?

Sources of Preparation

Geeks for Geeks, InterviewBit, Hackerrank, Hackerearth, Leetcode

Courses and Certification

Knowledge of DSA is sufficient. It doesn't matter whether you have officially done this course or not. But you should have strong command over it.

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Sector: IT

Name: *Utkarsh Jain* (2014B5A80864P)

Company: Flipkart

Profile: SDE

Recruitment Procedure

Coding Test: 3 questions

Technical Interview 1: The interviewer made it clear in the start that he is going to ask 2 questions and I have 45 minutes to solve both the questions.

Ques 1: Find next greater number with same set of digits.

Ques 2: Given the hierarchy of employees in an organization find out the maximum number of people that can be invited to a party given that if a manager is invited, his direct subordinates cannot be invited. (DP on trees).

Technical Interview 2: The instruction was similar to interview 1

Ques 1: A binary tree is started burning from a given node. It takes 1 second for the fire to spread from a node to its adjacent nodes. How much time it takes for the entire tree to get burned? The fire will spread to all the paths from a node.

Ques 2: Given an array of integers and a number k find out the smallest number greater than k that is not present in the array. Expected time complexity $O(n)$ and Space complexity $O(1)$.

Hiring Manager Round: Questions were asked based on my resume. Detailed discussion on the Practice School-2 internship project and other projects I had mentioned on my resume.

Sources of Preparation

GeeksForGeeks, InterviewBit





Sector: IT.

Name: Himangshu Baid (2015A7PS0082P)

Company: Goodera

Profile: Product Engineer

Recruitment Procedure:

The process had 3 stages:

- **Online Test:** Included an aptitude and coding components. The aptitude component consisted of mathematics, logical reasoning and English. The coding component had 3 questions that tested capability of applicants in data structures and algorithms. The total time for the test was 60 minutes and shortlist included candidates that had done well in the aptitude sections but and had attempted one of the coding questions partially.
- **Technical Interview 1:** This round was taken by a senior engineering manager who was a BITSian alumnus. I has asked multiple questions that tested my capability with data structures, problem solving, etc.
 - The following are some of the questions I was asked:
 1. Given an array A of n integers indexed 0 to $n-1$, return an array B of n integers such that $B[i]$ is the first element $A[j]$ where $i < j < n$ and $A[j] > A[i]$. If a greater element does not exist, $B[i] = -1$. [Topics involved: Dynamic Programming, Stack]
 2. Given a binary tree, find the diameter of the tree. [Topics: Trees, Recursion]
 3. Given that you have to build an employee volunteering platform, what specifications, features would you include. [This question is designed to gauge the innovative capabilities of the candidates.]

My answer included a possible implementation of the portal (using APIs), features for volunteers, managers and NGOs and most importantly, a specialized search feature.
- **Technical Interview 2:** This round were taken by the CTO of the company, who is also a BITSian. This round purely focussed on problem solving.

The following are some of the questions I was asked:

 1. Write the pseudo-code for an algorithm to find the number of zeros at the end of $n!$.
 2. Given that the grading for each course at BITS happens by creating a histogram with the scores of each student in the course and by identifying “gaps” in the histogram, devise a program that automates the grading process.
 3. Create a `rand()` function that doesn’t use the system `rand` function and returns a number between 0 and 1000 with equal probability.





4. Given a function $f(x)$, where x takes integral values between 0 and 1000, using the system generated $rand()$ function, design a function $randf()$ which returns values between 0 and 1000 such that the probability distribution curve of $randf()$ matches the curve $y=f(x)$, assume all curve related functions like area, differential curve, etc. are provided.

Sources of Preparation:

I found Interviewbit and GeeksforGeeks to be the best platforms for preparation for placements in the IT sector. I was asked questions that I had previously encountered in the coding practice and the puzzles sections on interviewbit or seen on GeeksforGeeks.

Courses and Certification:

No courses or certifications are requisite.

Other Relevant Information:

Throughout the interview process, it is very important that you don't become tense. I witnessed close friends being unable to answer simple questions during tests and interviews due to the pressure.





Sector: IT

Name: *Mayur Krishna Gupta (2014B3A80707P)*

Company: HDFC Life

Profile: Graduate Trainee

Recruitment Procedure

- Resume shortlisting
- Technical interview
- HR interview

Shortlisted students were called up for the interview rounds (Video and Telephonic Interviews)

Round 1 - They asked resume-based questions, mainly on the projects specified and Internship (in detail). Follow up questions were asked about the technologies/frameworks used and how did you approach and solve difficult situations/problems. Easy questions, some tricky ones. Mostly SQL and Database related questions.

Round 2 - One Design Problem was asked (Only approach and some basic follow-up questions). Questions about functional Language (Scala) and Big Data were asked as I have mentioned these in my Resume. Discussion about Data pipelines and Spark framework (They check conceptual and on-the-spot thinking).

HR Interview - Easy and concise, some questions about self and family, work done at internship and other interests.

Sources of Preparation

Basic knowledge of coding, although they didn't ask any coding question in the interview. Aptitude Geeksforgeeks and InterviewBit are good sources.

Courses and Certification

Basic knowledge of functional Language like Scala or JavaScript would be a big plus.

Other Relevant Information

Mostly they'll ask questions related to work done and technologies used by you during your internships and mentioned in your Resume. So, prepare your Resume and be ready for the follow-up questions.

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Sector: IT.

Name: *Shrey D Shah* (2014B5A30706P)

Company: HSBC

Profile: Software Engineer

Recruitment Procedure

- **Online Test 1** – Aptitude (Quant + Verbal + DILR) + JavaScript and Angular (low weightage to JavaScript and Angular) + basic conceptual questions on DS, DBMS. etc
- **Online Test 2** - Two coding questions with moderate difficulty

INTERVIEWS

- Resume round - Internships, projects (mainly internships in my case, differs from case to case)
- Technical round - Easy to moderate questions on Data structures, Implementation of reinforcement learning on one of their products (profile specific).
- HR round - classic questions on family background, friends, future plans, why HSBC. etc)

Sources of Preparation

- Good practice on aptitude (almost similar across all aptitude tests, pattern similar to CAT)
- moderate level preparation on Data Structures (although some students were asked) and Dynamic Programming, so practicing enough questions and concepts doesn't hurt.

Courses and Certification:

If you code in java it will be a plus (though not necessary), experience on front-end will help in Online Test as well as in the interview (Again, I wasn't tested on my front-end knowledge at all). All in all, good generic preparation (generic as in common practice for all companies) should be enough.

Other Relevant Information

Good communication skills will be a big plus.

Also try to take forward the interview in the way you want it to, rather than giving chance to the interviewer to dwell into your uncomfortable zone.

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Sector: IT

Name: C Pranay Reddy(2014B4A80757P)

Company: Jio

Profile: Data Scientist

Recruitment Procedure:

- Online test, 2 Technical interviews and an HR interview. Only A3, A7 and A8 were allowed to sit for the online test.
- Online test was pretty easy. Nothing fancy. At the start of the test, the students were asked to pick one between SDE/DS based on their interest (This had no bearing on the final selected list for the respective roles). I opted for Data Scientist as I had worked on the same during PS2. The time allotted was an hour and it was more than sufficient (One could easily crack the online test with minimal coding skills). 40 students were shortlisted for SDE whereas 15 were shortlisted for DS. The questions were as follows:

1. <https://www.quora.com/How-do-I-find-the-number-of-distinct-elements-in-two-arrays>

2. <https://www.geeksforgeeks.org/program-to-print-the-trapezium-pattern/>

- **Technical Interview-1:**

Questions were as follows—

- a. Introduce yourself.
- b. Explain your PS2 project. My project was On Data Science and hence he was very keen on the same.
- c. Explain the Difference between a Decision tree and a Random forest.
- d. Finally, He asked me a simple string question- “Find the first repeated character in a string?”





- **Technical Interview-2:**

This was a bit grueling. Interviewer tried me to put through stress test time and again and he was gauging my responses. It's important to remain confident and draw a thin line between being honest and being brutally honest. Optimal solution is what he was looking for!

Questions were as follows—

- a. Introduce yourself (It's important to hit the bull's eye right here and do not sway away from the main line. Told him about my interest in Data Science)
- b. Why is your online test score so low? (Bouncer straight away! Answered hesitatingly that in one of the two answers, only half of the test cases passed only to come to know that he had no idea about my online score:))
- c. How have you fared in other companies? (Another question out of the blue. Told him that I had been sailing through online tests only to get rejected in the final interview round. I was a bit blunt here and could have answered it better. He seemed quite skeptical)
- d. Explain your PS2 Project?
- e. What is Bayes' theorem? He asked me for the proof of the same (Luckily, I went through the same on the very same day and I was able to answer the same)
- f. Explain the significance of 'Naive' in Naive Bayes classifier? (I found the question interesting. I knew the answer as well. He was content with the reply)
- g. Elaborate the differences between K-NN and K-means? (Didn't give a satisfactory reply. He said- "I was not good with the basics" and he was judging my reaction)
- h. If I lit up a random node in a tree, how long would it take for the fire to spread across the tree? He asked me for the algorithm. (Told him it was an application of BFS. He asked me to write the code of the same. He informed me it was badly structured (my code) and he was gauging my reaction. I remained mute.)





i. How would you detect and remove a loop from Linked list? (Gave him the optimal solution. He responded with – “Standard question, isn’t it?” and smiled)

j. Given a paragraph, count the number the permutations of a given string? (Didn’t give him the optimal solution that he was looking for. He was okay with my answer.)

k. How comfortable are you in data structures? (I responded with a sound ‘very comfortable’! A beaming smile followed.)

l. Why Jio? (Told him about my interest in Data Science.)

m. Have you been to Bombay? (This brought a smile to my face. All the doubts that I had in my mind were put to rest. I knew I would make it after the question)

As it turned out, PU informed me that I made it right after the interview. It was a great interview experience. BITS Pilani, It’s magic!

- **HR interview:**

She just said – “Congratulations!”. She elaborated a bit about the company and stated that an offer would be rolled out in the near future

Sources of Preparation: GeeksforGeeks, InterviewBit and Andrew Ng’s Course for Machine learning.

Courses and Certification

Nothing solid as such. Prior experience of Machine learning would add muscle to your resume in case if you’re planning to become a Data Scientist. Applied AI course (paid online course) is pretty good if you do not have any qualms in shelling out few bucks.

Other Relevant Information

Remain Optimistic throughout the placement season. Ooze confidence all the while. You should be able to convince the recruiter why you wish to join that particular organization and that particular sector and not work in some other sector. Placement season is fun and tiring at the same time. Enjoy it as it comes. Wishing you All the Best!’





Sector: IT

Name: *Hemant Kumar* (2014B4A30502P)

Company: Jio (Reliance)

Profile: Software Development Engineer

Recruitment Procedure

- Online test: - On Amcat Platform. Medium Level (can be easy as well, depends on set) 2 coding Questions. Just need to have speed and accuracy in writing code because time will be just 45 mins.
- Shortlist usually depends on performance of that batch, from our batch anybody doing 1.5 questions were shortlisted for interview round. 1.5 means all test cases passed in 1 questions and half in the remaining question.
- Technical Interview 1: - 4 DSA Questions were asked. Merging two sorted linked list. Write In-order traversal of given tree. Construct back the tree from the in-order you just wrote. Matrix Chain Multiplication (Optimisation). Complete Code needed. Pseudo Code might not work.
- Technical Interview 2: - 1 DSA Question asked: - Optimise Matrix Multiplication and make it better than N^3 . New Technologies known? Uncomfortable Zone ? Big Data, BackEnd, FrontEnd.
- HR Round: - Introduction. Compensation Details. Offer Closure.

Sources of Preparation

- InterviewBit
- GeeksForGeeks (Top 10 algorithm Questions- Must Do)
- Possibility of improvement in every algo one reads.

Courses and Certification

- DSA
OOP – JAVA,C++





Sector: IT

Name: Nausheen Akhter (2015A7PS0023P)

Company: Reliance Jio, Mumbai

Profile: Software Developer

Recruitment Procedure

➤ Online Coding test:

2 questions were asked from Arrays and Strings. 10 test cases were there, all must be passed to advance to the interview stage.

➤ Technical Interview Questions:

a. Puzzles

b. Coding questions on Graphs and Trees.

c. They also asked some questions from MySQL.

Sources of Preparation

➤ InterviewBit - Practice each and every coding questions and follow the pattern.

➤ GeeksForGeeks – Search up past interview experiences and questions asked besides this chronicles document. There is one section “MUST DO CODING...”, try to practice it once.

Courses and Certification

OOP, OS, DBMS, DSA

Other Relevant Information

Never include anything in your resume that you are not 100% confident/prepared in especially projects. Prepare your resume very well. Drill each and every point clearly. Be confident while answering questions. You need to be able to convince the recruiter why you wish to join that particular organization and not work in some other sector.

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Sector: IT

Name: PRANAY KUMAR GANGULY(2015A7PS0124P)

Company: Jio

Profile: SDE

Recruitment Procedure:

- Online Test, Technical Interview 1, Technical Interview 2, HR
- The test had 2 questions which were easy. Speed is important as submission time may be the criteria.
- Technical Interview 1:
 - a. Asked about my resume very thoroughly.
 - b. Follow up questions from resume which were of varying difficulty.
- Technical Interview 2:
 - a. Questions from data structure and algorithms.
 - b. Covers a lot of topics of DSA.

Sources of Preparation:

- Class notes for DSA, OS, Data Base, OOP and Computer Networks.
- Geeksforgeeks, InterviewBit and CodeChef for competitive coding.

Courses and Certification:

- DSA and OOP are the most important courses.

Other Relevant Information:

- Try to stay calm and fresh-minded, so that questions are better understood and answered. Having a good grasp on the resume is necessary as the resume point analysis is very thorough.





Sector: IT

Name: Saurav Narula (2014B4A30814P)

Company: Jio

Profile: SDE

Recruitment Procedure:

- Resume Shortlisting (Only Circuit Branches were allowed), Coding Test, 2 Technical Interviews
 - Coding Test had 2 questions. There were sets and platform was Amcat Automata. Questions in all sets were basic and based on arrays and strings. The test was of one hour and one could do both the questions easily, well in time.
 - First Technical Interview had questions based on arrays, strings, DP and OOP. In the end, the interviewer asked me to explain one of my projects in brief.
 - The second Interview was taken by a senior person who asked only one question from Data Structures which was on trees. Then he asked me some puzzles. His major focus was on my thought process and logic not on the answer. I also asked many clarifying questions as I didn't want to make any false assumption. After being done with the puzzles, he asked me about my PS-2 experience and what project I worked on. He wanted to see how useful my contribution was to the team at my PS-2.

Sources of Preparation: Geeksforgeeks, Interview Bit, lecture slides for OOP and OS.

Courses and Certification: Courses like OOP and OS are a big plus for EEE-ENI students because if you don't do these as courses, you will have to do it separately. Some companies do ask basic questions on DBMS too if you have used it in any of your projects.

Other Relevant Information:

Make sure you don't mention anything on your resume about which you don't have complete information. It gives a very bad impression if you are not able to justify your knowledge about something which you have mentioned in the resume.





Sector: IT

Name: *Shetgaonkar Hrishikesh Digambar (2014B5A70681P)*

Company: Jio

Profile: Software Development Engineer (SDE)

Recruitment Procedure

- Recruitment procedure consisted of three rounds; Online test and 2 technical interviews.
- **Online test** had two coding questions to be solved in one hour. The coding questions (printing a pattern and string manipulation if I remember correctly) were relatively simple.
- The **first technical interview** was mostly focused on my resume. There was a detailed discussion about my course and internship projects. A couple of puzzles were asked. Then I was asked about my favourite subject and questions were asked on it (OOP).
- The **second technical interview** was more focussed on Data Structures (trees and linked lists). One puzzle was also asked. Then there was a small discussion about my CGPA and extra-curricular work.
- Then there was a brief interaction with the HR where I was informed about my selection (There was **no HR round**).

Sources of Preparation

- GeeksForGeeks and InterviewBit.
- Focus on Data Structures (Trees (balanced trees, tree traversals, etc), Linked lists (presence and length of a loop, etc.)), OOP, OS and DBMS in the same order.

Courses and Certification

DSA and OOP.

Other Relevant Information

Revise and prepare well for a detailed discussion about the projects and internships mentioned in your Resume.





Sector: IT

Name: Vidushi Gupta (2015A7PS0011P)

Company: JIO

Profile: Software Development Engineer

Recruitment Procedure:

- Online Test, Technical Rounds, HR Round
- Online Test - 2 questions to be done in 60 mins, both questions on arrays.
- In the first Technical Round, the interviewer gave me two simple coding problems to solve. One was on array rotation and other was on matrix multiplication. I had to write the code for both the questions.
- In the second Technical Round, questions on my resume were asked. I was asked to give an overview of my internships and academic projects. Then he asked me questions like why my CGPA is low, how will you rate yourself in programming language etc.
- The last round was the HR round and the standard questions were asked.

Sources of Preparation

1. GeeksforGeeks - great source to begin with and get familiarized with data structures and algorithms.
2. Interviewbit - for practising the coding questions in a timed manner.
3. OS, DBMS – youtube videos by knowledge gate.
4. OOP – lectures slides.

Courses and Certification

DSA, OOP, OS, DBMS.

Other Relevant Information

In technical interviews, only your approach to solving a problem is checked. Be vocal about your thinking process. Don't try to answer the question if you are not sure about it. Just let them know that you are not good with a particular topic. HR rounds: Most important thing was to convince the recruiter why they should hire you when you have other job opportunities as well.





Sector: IT

Name: Vineeth Naroju (2015A7PS0121P)

Company: JIO

Profile: SDE

Recruitment Procedure

- Coding round:
 1. Print all prime numbers less than N ($< 10^9$).
 2. Print the given pattern.
- Technical round 1:
 1. Tell about yourself.
 - Tell about your favourite language and why do you prefer it to another (myself, C++ over Java)?
 - Tell about your projects, your contribution and what did you learn?
 - Tell about your courses and which languages you implement them in and why? (myself, competitive coding in C++ and OOP in Java).
 2. Towns are situated above and below a river. Towns are numbered from 1 to N . A bridge can be constructed from a town with the same number above the river with the one below the river. Find the maximum number of bridges that can be constructed. (Ex., Above river : 3 2 1 4 and below river: 2 3 1 4, and sequence of bridges is 3-3, 1-1, 4-4 (or) 2-2, 1-1, 4-4). It's necessary to show why the algorithm works.
 3. Kadane's algorithm: It's important to take care of corner cases and code the same without error.
- Technical round 2:
 1. Given a big unbalanced BST, convert it into a doubly linked list in-place. Use the left and right pointers of a BST node as previous and next pointers of DLL. Write pseudo-code for the same. Explain your sequence of thoughts carefully.
 2. Given a large directed graph with cycles and pointers to two nodes as source and destination. Write a function to verify if all paths from source reach destination, even if any one of the paths fails to reach destination return false. Write pseudo-code for the same.





Sources of Preparation

- Competitive coding: Codeforces, Hackerearth.
- Previous interview problems: InterviewBit, Geeksforgeeks.
- Books: DSA made easy by Narasimha Karumanchi (Solve this completely for beginners), Cracking the coding interview.
- MySQL (simple queries): Hackerrank, w3schools.com
- Database System (definition- ACID, transaction) - Geeksforgeeks, Operating System (process scheduling, mutex, semaphore, memory management) - lecture slides.

Courses and Certification

- DSA, DAA, Database System.

Other Relevant Information

- In one of my projects, I was the database architect. So, choose projects carefully and remember them in detail.
- Explain your thought process clearly stating how and why the problem is solved in a certain way.
- Interviewers are impressed if you take care of all corner cases and the code is error-free. They check if the code is production ready.
- For those technically not good, puzzles were asked in last round.
NO questions on system design.





Sector: IT

Name: *Sree Teja Nanduri*, (2015A7PS0145P)

Company: KPIT

Profile: Software Engineer

Recruitment Procedure

1. **Online test:** An online test was conducted which could be taken from your room. Had to answer 70 questions in 60 minutes, hence speed is of the essence here. It consisted of three sections - Verbal reasoning, Logical Reasoning and Coding Related questions. The test was entirely MCQ based.
2. **Interview Round 1:** This was an online interview. The interviewer asked questions about all the projects on my resume in depth. I would suggest not adding a project on your resume unless you know the project in and out. In general, other people were asked some basic Java and C++ related questions.
3. **Interview Round 2:** This was an offline round. I was asked in more depth about 1 or 2 projects on my resume which were in the area of data mining. Further, the interviewer continued to ask some questions related to very basic data science concepts.

These rounds were followed by a brief HR round where the interviewer asked many questions about me and my academics.

Sources of Preparation

Reading the computer science course material is more than sufficient. For coding, prepared from sources such as GeeksForGeeks, LeetCode and Interviewbit.





Sector: IT

Name: Pandillapalli Bhargav (2015A7PS0070P)

Company: MasterCard

Profile: Trainee Analyst, Engineering Trainee

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical Interview, HR Interview
- Test had 30 multiple choice questions to be answered in 1 hour. Test was relatively easy. You don't need to be very fast but you have to be accurate while answering.
- For me there was only one interview which is like 2 on 1.
- They gave 2 simple coding questions. They can be solved very easily if you have very basic knowledge of Data Structures and algorithms.
- They asked some questions like which language do you prefer while coding and why. Since, java is my answer they asked me questions why java is very popular now a days and what is difference between object-oriented languages and structural languages.
- Then they asked questions on projects mentioned in resume and focussed mostly on ML projects and asked to explain some basic algorithms of classification with examples.
- Then it went mostly like HR with questions as are you ok to shift to Gurgaon, what does MasterCard do, where do you think Artificial Intelligence will help MasterCard and follow up questions based on answer.

Sources of Preparation

Interviewbit, geeksforgeeks, DSA made easy (Narasimha Karumanchi), aptitude questions randomly from internet.

Courses and Certification

Machine Learning. It will be an advantage if you do artificial intelligence. Good grades in Mathematics subjects (M1, M2, M3, P&S) will be an added advantage.

Other Relevant Information

Interviewers are mostly interested in your way of thinking than the answer.

Before going to the interview it's better to go through JD and browse about the company on the internet so that you can answer well.





Sector: IT

Name: *Tushar Dhalwani* (2014B2A70885P)

Company: Ola Cabs

Profile: Software Development Engineer (SDE-I)

Recruitment Procedure

Online Coding Round, 2 Technical Interview Rounds, 1 Hiring Manager Round

- **Online Test** had 4 coding questions on Hackerrank Platform.
- **Technical Interview** Rounds and Hiring Manager round were conducted on Hackerrank CodePair platform where you are on video conference with the interviewer and have to code simultaneously. Your code will be compiled and run too.
 - Round 1 was for 1.5-2 hours. A brief discussion on my resume followed by 4-5 coding problems. Problems were from Trees (including Red Black), HashMaps and Two pointers. You'll be asked to optimise your code for time and space.
 - Round 2 was for 2-2.5 hours. Again a short discussion on my resume followed by 2 coding problems. Second problem was a Matrix-DP problem which required deep thinking. You'll be asked to optimise your code for time and space.
- **Hiring manager round** was for 45 mins-1 hour and consisted of Basic HR Questions, Why Ola, my biggest achievement, etc. In the end I was asked a DP (Dynamic Programming) and Hashmap based question and was asked to write its code also.

Sources of Preparation

InterviewBit, GeeksforGeeks and Hackerrank are bare minimum. Do Competitive Programming if possible. It always helps.

Other Relevant Information

The interviewers would test if you can think critically on a tough problem which is not very standard. Be confident in your answers. Your temperament during long interviews is a very important factor. Don't lose focus from the problem at hand. Finally, keep your interviewer involved so he knows what you are thinking. If you're stuck, they might hint you to think different.

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Sector: IT.

Name: Harshil Choudhry (2015A8PS0457P)

Company: ORACLE

Profile: Member of Technical Staff - Server Tech

Recruitment Procedure

5 Rounds (Online Test, 2 Technical Rounds, 1 Manager Round, 1 HR Round)

- Online round consisted of MCQ's and 2 basic coding questions(Languages: C,C++, JAVA).
- First Technical Round was based on Design Problem both UML and code were discussed.
- Second was majorly based on algorithms with some discussion on the internship project.
- Manager and HR round consisted of non technical questions like Why Oracle / Why IT/MBA plans.

Sources of Preparation

GeeksForGeeks , InterviewBit, DSA- Naveen Garg- IIT D (Nptel) , Codeforces

Courses and Certification

OOP,OS,ML,Deep Learning, DSA

Other Relevant Information

Have relevant courses / internship if you are Non-CS . Avoid Python or have good command in a second language (C/C++/JAVA)





Sector: IT

Name: *Sai Pranith Meka (2015A3PS0210P)*

Company: Oracle

Profile: Member of Technical Staff – Server Technology Group

Recruitment Procedure:

- Online test, 2 rounds of Technical interview, 1 managerial round and 1 HR round
- The online test consisted of a multitude of sections like quant, verbal, puzzles and coding questions. Key is not to waste time on lengthy questions
- Technical rounds comprised of questions from my resume about my PS-2 project, object oriented design, OS, database design, DBMS, trees, strings etc.
- Managerial and HR round consisted of questions about my PS-2 project, myself and generic HR questions which you could find over the internet.

Sources of Preparation:

- For coding round, I prepared from InterviewBit and GeeksForGeeks

Courses and Certification:

- Courses like DSA, OS and DBMS are very important, so prepare thoroughly

Other Relevant Information:

The interviewers told me that they were very impressed by my PS-2 project so having an attractive PS-2 project and having exhaustive knowledge about it will give you a sharp edge over others. DO NOT put anything in your resume you can't answer if questioned because that is a huge red flag for interviewers. Best of luck!





Sector: IT

Name: Shubham Aggarwal (2015A3PS0226P)

Company: Oracle

Profile: Member of Technical Staff

Recruitment Procedure

1) First part is an online test. It consists mostly of reasoning and quant questions. It also has 2 very easy programming questions (one could be solved using 1 for loop and other using 3 nested for loops). Almost 50-60 people were shortlisted for the interviews.

There were 4 rounds of interviews (two technical, one manager and one HR).

- 2) The first interview was mostly about the project done during ps and 1 easy question of dp
- 3) Second round had some basic questions of java along with merge and quick sort implementations
- 4) The third interview mainly focused on future goals and expectations from the company
- 5) The final HR round was pretty basic as well

Sources of Preparation

InterviewBit, Geeksforgeeks

Courses and Certification

OOP





Sector: IT

Name: Lohith Karlapudi (2015A3PS0168P)

Company: Philips

Profile: Software Engineer- Technical Leadership Programme

Recruitment Procedure

- Online Test, Interview, HR Round.
- Test had 4 Sections
 1. Verbal Section. It contained basic word meanings, fill in the blanks and also spot the error kind of questions. Extensive prep is not required as most of the questions were easy, although a regular reading habit would always help.
 2. Logical Reasoning.
 3. Aptitude/Quant.
 4. Coding Round. Coding round had two questions, both were pretty moderate, but with ample practice, both were easily solvable.
- Test was pretty easy and finally 10 people were shortlisted.
- During the interview we had 3 rounds. 1 Technical, 1 Managerial and 1 HR round.
- Technical round was based on the computer science courses you did and mentioned in your resume. So being thorough with your resume is necessary. But main focus was on OOP and OS. And knowing system design is also necessary.
- In managerial round there was one moderate coding question and apart from that there was a detailed discussion on my POR's and what I learned from them.
- In the HR interview, basic questions like why Philips and would do MS later, and where do you see yourself in 5 years all those questions were asked.

Sources of Preparation:

InterviewBit and geeksforgeeks are a must for IT sector. Also go through previous experiences from PU chronicles and Archives in geeksforgeeks, most of the time questions end up getting repeated.





Courses and Certification :

OOP, OS, DSA, Machine Learning, Neural Networks and Fuzzy Logic.

Other Relevant Information :

If your priority is getting placed in day-1 and you belong to one of the circuit branches, practice coding and also be thorough with OS and DBMS. Also prepare yourself for any kind of question on your resume. And if you have already done your PS before your placements season be thorough with your PS project as well.





Sector: IT

Name: *Rahul Saxena(2015A8PS0306P)*

Company: Philips, Bangalore

Profile: Software Engineer- Technical Leadership Program

Recruitment Procedure:

Online Test--- Technical Interview 1--- Technical Interview 2--- HR Interview.

- Online Test was a webcam monitored test conducted on AMCAT Platform. It consisted of Verbal Reasoning,

Technical Section (consisting of questions from DBMS, OOP, Computer Networks, & OS.), Logical Reasoning and Quantitative.

- After finishing all these MCQ sections, there was a coding section, which had 2 questions, one was an Array Manipulation question, and other was a graph question in which you had to form teams to calculate the max. strength, for example, if you're given a list of pairs of students eg. (1, 2) and (2, 3), then you had to classify all three as belonging to the same team. After creating teams, you need to find the max. strength of each team by summing the strength of each student comprising that team.

- You were not allowed to revisit any section or any question.

- After the shortlisting based on online test scores, we had two technical Interviews.

- In the first interview, I was asked questions about Memory Management, how is it done in UNIX operating system. Questions about JVM and JRE, how JVM handles the memory. How Memory Management is different in C++ and Java? I was also asked to write the code for finding the determinant of a matrix. One classical puzzle of measuring 45 mins with two ropes (each of which burns in 1 hr) was also asked.

- In the second interview, I was asked to explain my PS-I project. I had to explain the whole Image Processing algorithm that was used in the project. I was also asked to write a code for printing a specific pattern. The interviewer asked me about my most important achievement in +2, my significant failure during my UG, about my family background etc.

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- In the HR round, they asked me to introduce myself, why do you want to work for Philips? It is important that you do your homework in knowing enough about what the company does, and about the department they are hiring you for. Knowing about some of the latest products of the company is a plus.

Sources of Preparation:

Strong OS and OOP concepts are a must.

- OS: For OS concepts, you can refer to YouTube videos, there are some really good channels which provide good topic-wise explanation e.g Knowledge GATE. Reference - OS Concepts by Silberschatz. Know Memory Management in UNIX, also how JVM handles Memory Management.
- OOP: On-campus course is good enough, just go through slides and notes, and refer geeksforgeeks for additional theoretical knowledge. Be absolutely clear with 4 fundamentals of OOP.
- DSA: Practice questions on LeetCode.com, videos of Tushar Roy on YouTube, for topics like DP. Be through with the classical & most frequently asked System Design questions. Eg- Design BookMyShow etc.

Courses and Certification: Operating Systems, Object Oriented Programming, Data Structures & Algorithms.

Other Relevant Information:

- Do not classify HR questions as 'easy'. They are trick questions to check how well you know yourself. Prepare them.
Philips focuses on how good you are with your fundamentals, especially OS and OOP Concepts.





Sector: IT

Name: Anjan Das (2015A7PS0150P)

Company: Salesforce

Profile: Associate Member of Technical Staff

Recruitment Procedure:

The following are the rounds they conducted while hiring from our college.

Round 1: This was an Online Coding Round hosted on HackerRank (I guess) having two questions:

Question 1: This was a normal two pointer question with a slight modification. Level – Easy

Question 2: This question was based on a post from geeksforgeeks with the title – “Partition of a set into K subsets with equal sum”. I did this using DP since I couldn’t think of Backtracking during the test. And obviously my code didn’t run for all cases, since my code wasn’t able to handle negative numbers in the array.

Round 2: This was a technical interview round having questions from Computer Science fundamentals, viz., OS, OOP, DBMS. The interviewer also asked me some good questions from DSA. The questions were Easy (Array), Moderate (Strings) and Moderate (Trees) respectively. One of the questions was to do a pre-order traversal without using recursion. I did it using a stack. (Level – Easy). I don’t remember the other two but they were not that difficult. Anyone with fair amount of practice can do these questions. He told me to write error free code on a piece of paper and also dry run for different test-cases.

Round 3: This round was also a technical interview round. He asked me abstract questions and wanted me to come up with some sort of design for an end-to-end system facilitating the hotel

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industry. Here, the interviewer expects the candidate to be creative and come up with unique ideas. You have to think out of the box. But believe me, it's not that difficult. If I made it, you can too. Then he asked me about my projects and internships. One should be thorough with resume and the projects mentioned. It's really important. Then he asked a standard DSA question which was – “Given a binary tree, generate the vertical order traversal of the tree”. One can easily find it in geeksforgeeks. He also asked very basic questions of OOP, which were very difficult. For example, how does free (ptr) get to know about the size of the block allocated to ptr (pointer initialized using malloc, say), and when it is called how it actually works. Really basic but difficult, at least for me.

Round 4: This round was again a Technical Interview round. I got to know from the HRs that it was circulated to the other interviewers that my CS fundamentals were not strong enough. I couldn't agree more. I knew that already. Since my previous two interviews were a bit dicey, they called me up for another round of Technical Interview. Yes! Not true for everybody though. The interviewer asked me a very difficult question (relative again) based on Dynamic Programming which goes as follows – “You are given with n houses and three colours. You are also given the cost of painting each house with a particular colour. So, we have $3*n$ costs, right? Now we need to paint all the houses such that the overall cost of painting is minimized and also now two houses can be painted with the same colour”. First of all, I gave a solution based on Backtracking and the solution complexity was exponential. He wanted me to improve the solution. I thought for about five minutes and couldn't come up with any solution. Then I realized that I had done such a question in the Interviewbit Code Ninja Tests. So, I somehow figured a similar logic for the question and it worked! The interviewer was impressed and cleared the round.





Round 5: This round was the final and HR round. I was asked in-depth questions about the projects that I had mentioned in my resume. I explained everything properly. The interviewer got fascinated by one of my projects where I had worked on Blockchain technology. He told me to explain how a blockchain functions. After he was done interviewing me, I asked some questions about the work culture, tech stack and some latest technologies developed by the company like Einstein Cloud and CRM (not latest but very famous).

Sources of Preparation :

- 1) Codechef
- 2) Interviewbit
- 3) Geeksforgeeks

Courses and Certification :

- 1) DSA
- 2) DAA
- 3) OOP
- 4) OS
- 5) DBS

Other Relevant Information :

I made sure to read about the company before the interviews which really helped me in some rounds. I also read the geeksforgeeks archives to know about the pattern of their interviews. They make you write “error-free” code on a piece of paper and tell you to dry run the code for various test cases. Also, CS fundamentals based on OOP, OS and DBS were frequently asked in the interviews. Coding questions were based on Arrays, Trees, Backtracking and Dynamic Programming. Practice is a must to clear the coding round and also the interview rounds.





Sector: IT

Name: Dhruv Pandia (2014B2A80535P)

Company: Salesforce

Profile: Associate Member of Technical Staff

Recruitment Procedure

Round1- Online Test

The Online Test consists of MCQ and 2 coding questions. MCQs were mostly asked from OOP, Operating Systems, DBMS, Data Structures.

Q1) Given an array of integer, count the No. of triplets a, b, c such that $a+b+c > S$ (S is given) and $a < b < c$.

Q2) Given an integer array of N elements, the problem is to divide this array into K non -empty subsets such that the sum of elements in every subset is same. All elements of this array should be part of exactly one partition.

Round2-Technical Interview

Initially he asked me to design Netflix, he just wanted an overview that how I'll approach and then asked what will major challenges in implementing the backend part. He told me to write code of Singleton Design pattern. Then he gave few coding questions to solve one was on binary search and was on tree. He asked me how Hashmap is implemented in Java and how will you handle collision.

Round3-Technical Interview

He asked me write code for finding k largest elements in stream of numbers. Next Question was to print all Jumping numbers from 1 to N.

Round 4-Technical +HR

Initially the interviewer asked me some OOP Concepts such as Inheritance, Encapsulation etc. Then moved onto my resume, asked me about my PS-2 project and other project that i had mentioned in my resume.

Sources of Preparation: GeeksForGeeks, InterviewBit, HackerEarth.

Courses and Certification: DSA, Operating System, OOP.

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Sector: IT

Name: *Harsh Bansal* (2015A7PS0075P)

Company: Salesforce

Profile: Associate Member of Technical Staff

Recruitment Procedure

- Online round, technical interviews and HR round
- Online test had 10 MCQs based on OS, DBMS, Networking, OOP and two coding questions.
- Two technical rounds were conducted where questions were mainly based on DSA and some basic questions on OOP and OS.
- Questions in the technical round were based on linked lists, trees, binary search, heaps and sorting. Algorithm explanation required via a rough code. The interviewers were patient, VERY helpful, gave pointers on approach.
- Last was Hiring Manager Round. This round was mainly based on resume, a few general questions and few basic technical questions. Make sure you do research on what the company does and is all about for acing this round.

Sources of Preparation

GeeksForGeeks, InterviewBit (Revise EVERY question from InterviewBit, a lot of them are repeated directly)

Courses and Certification

Important courses are DSA, DAA, OOP, OS and DBMS





Sector: IT

Name: *Kunal Sharma* (2014B2A10309P)

Company: SalesForce

Profile: Associate Member of Technical Staff

Recruitment Procedure

Round 1: Coding Test (20 MCQs and 2 coding questions). MCQs were from core CS subjects like OOP, OS, Networks. The coding questions consisted of:

1. No. of ways to partition an array so that child arrays have equal sum.
2. Finding triplets so that the sum of triplets is equal to a given value.

The shortlist was generated on basis of the test (where I solved 1 question and a few MCQs) and resume.

Round 2: 2 Technical Interviews.

1. In the first interview I had to solve a difficult tree question and a simple DP problem (ways to climb a stair when you can climb one or two steps at a time).
2. In the second interview I was given infinite inputs and I had to find the sum and store it. The catch was that using long long would also cause overflow, so I used a linked list to store the sum by representing each digit as a Node and add the new number to that linked list.

Code had to written for all the problems.

Round 3: Hiring manager round. He asked me some conceptual questions about OOP and Java like why do we need both abstract classes and interfaces on a conceptual level etc. He also grilled me on the fact that my branch was non circuit and that my CGPA was 7.

Round 4: Other candidates didn't have this round but I also had to do a HR round because the hiring manager wasn't satisfied with answers on my branch and CGPA. HR asked generic questions like how would resolve conflicts in workspace etc.

After the HR round I was offered the job.





Sources of Preparation

Interview Bit, GeeksforGeeks are sufficient. Also you should focus on getting a good resume if you are not from circuit branches.

Courses and Certification

OOP was the only CS course I had done which was relevant.

Other Relevant Information

If you are not from circuit branches, I would highly recommend you to participate in CS related activities that can allow you to showcase your programming skills. I did Google summer of Code and also had a PS in an IT company. Also focus on the conceptual aspects of CS instead of just the bookish knowledge because they will grill you on that.





Sector: IT

Name: *Ram Jashnani(2015A7PS0099P)*

Company: Salesforce

Profile: Associate Member of Technical Staff

Recruitment Procedure:

- Online round, technical interviews and HR round
- The online test had 10 MCQs based on OS, DBMS, Networking, OOP and two coding questions.
- Two technical rounds were conducted where questions were mainly based on DSA and some basic questions on OOP and OS.
- Questions in the technical round were based on linked lists, trees, binary search, heaps and sorting.
- Last was Hiring Manager Round. This round was mainly based on resume and general questions and very few basic technical questions.

Sources of Preparation:

GeeksForGeeks, InterviewBit, DSA by Narasimha Karumanchi and Handbook of Computer Science and IT (Arihant).

Courses and Certification:

Important courses are DSA, DAA, OOP, OS and DBMS





Sector: IT

Name: *Keshav Rai (2015A7PS0009P)*

Company: SAP Labs (Bangalore)

Profile: Cloud Platform (UI and services)

Recruitment Procedure

CG cutoff- 7.0

1. Online test: 2 questions (randomly distributed among participants). For me it was a graph question and a DP based question. 50 people got shortlisted among 80 participants.
2. Technical round 1 : General DSA based questions. Normal SQL queries and puzzles.
3. Technical round 2: DBMS based questions. OS based problems (e.g. Paging and scheduling algorithms). Networking questions.
4. Managerial Round: Two people asked questions based on basics of computer science. Puzzles and a design problem was also asked.
5. HR round: General questions like tell me about yourself. Why SAP? Family background etc.

Sources of Preparation: 1.Geeks for geeks 2. Interview bit. 3. Hacker rank. 4. Hacker earth. 5. Text books (for OS and DBMS).





Sector: IT.

Name: Sahil Sharma (2014B1A40552P)

Company: SAP Labs

Profile: Developer- Business Process Management

Recruitment Procedure :

Online Test: Test consisted of two coding problems, both were dynamic programming. One problem was similar to 0-1 knapsack with the weight of the order 10^{18} .

Technical Interview 1: 6 candidates were shortlisted for the profile. The interview started with a brief introduction, then the interviewer asked me about the POR in detail. The round was technical + managerial, he asked me about the problems I faced during my term as the captain of the Volleyball team and how I tackled the same. He asked me 3 DSA problems which were kind of intermediate, I was able to solve all three. Then the discussion shifted to internship experience and projects. Then he asked me some questions from the concepts of OOP like why java doesn't support multiple inheritances.

Some generic questions like:

- Why did you choose C++ and not java for coding?
- Why are you shifting from mechanical to IT?
- Why SAP Labs, and why this specific role?

Technical Interview 2:

There were two interviewers in this round, one was the manager who had taken my previous round, he was just observing in this round. I was asked to solve three DSA problems (two intermediate and one hard). He continued to go deeper into the concepts as we discussed how I arrived at the solution. Then he asked me some questions from OS like critical section problem, deadlock, semaphores vs mutex lock. He gave me an example of a multithreaded program and asked me the problems which may occur during runtime and the solutions to those problems.

HR Round:

This round was basically to check the cultural fit, all questions were generic.

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Sources of Preparation:

- OOP, OS and DBMS from Youtube videos.
- DSA from Hackerearth, Interviewbit and Codeforces.

Courses and Certification: I do not have any course certification.

Other Relevant Information:

Regularly practicing on Interviewbit will be sufficient for the coding round, but for clear understanding of basics refer to hackerearth (they have great tutorials on data structures and algorithms) and codeforces blogs.





Sector: IT

Name: Sreehari K (2015A3PS0282P)

Company: SAP Labs

Profile: Developer – SAP Cloud Platform Integration

Recruitment Procedure

- Online test, Technical Interview 1, Technical interview 2, Managerial Interview, HR
- Test was based on data structures. One Question each from arrays and trees.
- Technical Interview 1:
 - a. Tell us about yourself
 - b. Questions about PS II project (About the tools used, possible flaws in the design and improvements, changes to be made for added constraints etc.)
 - c. Design a train booking system UML diagram. Follow up questions based on flaws and improvements (what if 100 people try to book together for last 50 seats, what if two people want the same seat etc.). Follow up questions based on multithreading and process synchronization.
- Technical Interview 2:
 - d. Tell us about yourself
 - e. Questions about physics of a train booking system (weight distribution and stability). Develop an algorithm to implement this and choose a suitable data structure. Discussion based on flaws and improvements.
 - f. Puzzle and follow up discussion.
 - g. Best solution to find longest palindrome in a string.
- Managerial Interview (Same interviewer as of first technical round):
 - h. General interests and passions.
 - i. Future plans.
 - j. Discussion about family, work-life balance etc.
 - k. Discussion about the interviewers project. I was told to ask questions if any.





- HR round:
 - l. Tell us about yourself.
 - m. My opinion on inclination of students in non-circuit branches towards software profiles.
 - n. About other offers I had and why I would choose SAP.
 - o. HR explained in detail about the company.(About Importance to innovation, employee friendliness, work-life balance etc.)

Sources of Preparation

- OOP and OS concepts from respective courses.
- Interviewbit for DSA/programming.
- DevOps tools from online/PS II.

Courses and Certification

1. OOP and OS courses on campus.
2. Docker and other DevOps tools (no need of a formal certification).

Other Relevant Information

- Suggestion:
 1. For every job profile, there will be some skills that would make your resume easily noticeable. For this job profile, it might have been knowledge in DevOps tools. Make sure that you understand this from the JD of the job of your choice, acquire these skills and highlight it in your resume. Knowledge about DSA is extremely important but may not be sufficient for every profile.
Often interviewers look for your approach rather than your answer. So, no need to hesitate in explaining your thought process.





Sector: IT

Name: Vidit Bhat (2015A7PS0098P)

Company: SAP Labs

Profile: Developer – SAP Cloud Platform Core

Recruitment Procedure

- Online test – I was able to solve one out of the two questions fully.
- Resume – My project in PS was SaaS (Software-as-a-service) based and hence I had a fair idea of the requirements for the job profile.
- Interview – 3 rounds. 2 technical and 1 HR.
 - The first round was based on my resume and almost all the questions were on Networking and Operating Systems. Some basics of OOP were also asked. Brush up these three courses along with DBS. Practicing DSA goes without saying.
 - Second round was completely on DSA and puzzle solving. They were more interested in how I approached the problem and if in the end I was able to dig out the most optimal solution. Don't try to jump to the solution. Think before you say anything as every word said would be scrutinised.
 - Generic HR questions.

Sources of Preparation

- For courses I have stated above (except DSA), I prepared from the course slides majorly.
- DSA
 - Dynamic Programming questions practice from hackerearth.
 - Graph Algorithms from geeksforgeeks. Try to go through a variety of questions.
 - Rest of the topics can be practiced on any website of choice.

Courses and Certification

Nothing special.

Other Relevant Information

Focus equally on the courses and practising coding. Coding will only take you to the interview but a decent understanding of the fundamentals is a must.

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Sector: IT

Name: *Durjai Sethi* (2015A8PS0489P)

Company: Societe Generale

Profile: Software Engineer

Recruitment Procedure

- Online Test, PPT, 2 Technical Interviews, 1 HR interview.
- SocGen usually has a GD in its recruitment procedure but this time around it was omitted at the last minute for some reason.
 - The online test had multiple sections, with a wide spectrum of questions, covering English, Quant, Logical, Technical MCQs (with a few finance based questions) and 2 coding questions. This test differed from the others in terms of the coding section having comparable weightage with other sections, which implies the firm seeks versatility in its recruits. To clear the test one had to ace every section, as compared to doing well only in the coding questions, which is the commonly observed trend.
 - The first technical interview covered my entire resume with extensive discussions on the projects and internships, including follow-up questions. Post that, questions on DSA were mainly focussed on, with intermittent questions on SQL. This could vary from candidate to candidate, but since DSA and SQL were written on my resume, I was mainly asked questions regarding the same. A couple of questions regarding the basics of OOP were asked as well.
 - The second interview exhaustively covered all aspects of a cultural fit test, along with technical questions. I was asked about my internships, what my experience was like, what my expectations from SocGen would be, how I see myself in the future, what my plans for higher studies are, etc. The technical questions again focussed only on DSA and SQL. The interviewer didn't want to question the theoretical part of these concepts, rather checked my practical application of the aforementioned concepts and how well I was able to relate them with real life examples.
 - The HR interview was a brief one, and covered a few points from my PoRs, which had to be extrapolated to a corporate structure. This was followed by discussions about what my role in the firm would be, what's expected of me and what I expect of the firm, etc.





Sources of Preparation

GeeksforGeeks, InterviewBit are exhaustive platforms to practice and hone your coding skills. Knowledge of DSA is indispensable. Interviewers also tend to ask about the basics of OOP and queries in SQL. Some weightage to OS is also given.

Courses and Certification

I did DSA, OS and Data Mining as BITS courses, out of which only DSA was asked about extensively. Doing DSA, OOP, OS, DBMS as electives (if you're EEE/ENI) is undoubtedly helpful, but not necessary. You can do these courses as MOOCs, or just read about them on GFG or IB, if there's a time constraint. The crux being you should be proficient with the aforementioned concepts; the medium isn't of much significance to the firm.

Other Relevant Information

Interview preps are absolutely indispensable. You might be completely proficient in terms of the required skill set, but if the presentation part of the same is not at par, it can be a matter for both to the firm and the candidate alike.

Be prepared with the commonly asked questions in interviews so you're not caught off-guard. Practice previous year questions from GFG archives, to make yourself familiar with the kind of questions the firm usually asks.

Read up about the firm before appearing for the interview, you should be familiar with the rudimentary nature and functionality of the company, what your expectations from it are, and how you can help it benefit even more.





Sector: IT

Name: Pratyush Priyank (2015A3PS0188P)

Company: Societe Generale

Profile: Software Engineer

Recruitment Procedure:

1. Online Test: MCQs on Quantitative Aptitude, Logical Reasoning, English (2 out of the 3, can't clearly remember which) and Technical Proficiency, which involved questions on OOP, OS, DSA and on some technologies which are used by them (which no one could do, and hence eventually didn't matter).

2 coding questions:

1. Given a 2D array, convert it into a matrix by filling all the unfilled elements by 1 and then return the sum of elements on the left diagonal (from (0,0) to (n-1,n-1)), which are not present anywhere else in the matrix (apart from the left diagonal itself). For example if the 2D array is given to have 2 rows and 3 columns, and the elements are:

5 2 3

6 5 7

So, a third row of all 1s will be added to make it a matrix. Now, the elements on the left diagonal are 5, 5 and 1. But, 1 is present elsewhere in the matrix (in the last row), so it will not be included in the sum. (Note that the 5s are also repeated, but they are present on the left diagonal itself), so the answer will be 5+5=10. Hint: Think of Maps.

2. Given a number n, find the next smaller number, m, formed using the same digits (the frequency of occurrence of each digit in m should be the same as that in n). For example, if n=4213, m will be 4132. The order of n was 10^5 , so the straightforward approach of decrementing n by 1 every time, and checking whether the digits as well as their frequencies in the new number are same as in n, worked. The first such number encountered is the answer. But, there is a better approach for this as well. Try thinking of that.

2. Technical Interview round 1: The following questions were asked:

- Tell me about yourself (My introduction was all about my love for Computer Programming)
- If you love Computer Programming so much, why did you choose EEE?
- Tell me about your PS2 project
- Write code to open a file, read its contents and close it. How will you ensure that the file will definitely be closed, even if the program terminates abruptly?





- Yours is the first resume I have seen which doesn't have flashy points on technologies that you might have worked on. Why is that so?
- Which programming languages do you know?
- What is the difference between C and C++?
- What is the purpose of an Interface in Java?
- What is an Operating System? What are its functions?
- What did you learn in the course on Operating Systems?
- What are semaphores?
- Write code to delete consecutive duplicates from a series of numbers. For example, if the series of numbers is 1 2 2 3 3 3 2 2 4 5 5, the output should be 1 2 3 2 4 5.
- Are you planning to go for higher studies? Why not?
- Where do you see yourself 3 years from now?

3. Technical Interview round 2: The following questions were asked:

- Tell me about yourself (Same introduction as the first round)
- If you love Computer Programming so much, why did you choose EEE?
- Tell me about your PS2 project
- Tell me about your PS1 project (Me: Sir, it was at Power Plant, nothing related to IT. Interviewer: Doesn't matter, tell me anyway. I myself am an Electrical Engineer)
- Can AC be generated using a machine which does not have rotating parts?
- Explain the project on Smart LED Street Lighting System that you have done. Have you ever thought of implementing it in your college?
- Which programming languages do you know?
- What do you expect to do as a Software Engineer at Societe Generale?
- Why do you want to join Societe Generale?
- Do you know DBMS?
- Write code to find the maximum and minimum in a matrix of integers.

4. HR round: The following questions were asked:

- What is the length of an actual marathon? (My resume had a point on BITSRUNs that I had completed)
- Why did you change your board from ICSE to CBSE after 10th?
- Why did you drop a year after 12th?
- What is your hometown famous for?
- So, you were an NCC Cadet. Tell me about that. (At this point, by mistake I had said that I was a part of NSS, instead of NCC, at which he gave a stern look, thinking that I might be lying. So, I had to explain him about NSS and Nirmaan)
- You were the President of Maurya Vihar. What is Maurya Vihar?
- Are there any other such regional associations? What do they do?

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- Why do you want to join SocGen?
- Any plans for higher studies? Why not?
- Tell me about some of your strengths
- What do your mother, father and siblings do?

Sources of Preparation:

- Sound knowledge of OOP, OS and DSA is the basic requirement. Either do these courses as electives, or learn them on their own (There are many video courses available on the internet). DBMS and Computer Networks also very important. Though you may not be asked direct questions in the interviews, but the Technical proficiency section of the Online round will definitely have questions on these.
- Thorough coding practice. Though SocGen didn't ask very tough coding questions during the interview, the other companies whose interviews I had appeared for, had asked tough questions. Platforms like InterviewBit, HackerRank, GeeksforGeeks should be very helpful for coding practice.

Courses and Certification: OOP, OS, DSA, DBMS, Computer Networks

Other Relevant Information:

My contact information:

Phone: 8003344849, 7689832999

Email id: f2015188@pilani.bits-pilani.ac.in, pratyush.priyank.mishra@gmail.com

SocGen was my 7th interview. I have had enough experience of rejections as well, so feel free to contact me in case you have any doubts regarding placement preparation.





Sector: IT

Name: *Paras Gupta(2015A1PS0502P)*

Company: Udaan

Profile: Software Engineer

Recruitment Procedure :

1. Online Coding Test (Platform used was Hacker Earth)

We were given 2 questions to solve in 60 minutes. The first question could be solved using graphs or using dynamic programming. The second question was much easier as compared to the first one and it required only some string manipulation.

2. Coding Test (Application Development)

We were asked to make a quiz app which will fetch data from a database. We were allowed to use any technology we like. The app could be a web app or mobile app. I used android to make the app. The time limit given was 90 minutes.

3. Technical Interviews

In the first interview, I was asked about my approach to making the app. The interviewer kept on making the app more and more complex by adding new functionalities and I was asked how I will add these new features. I was asked which data structures I will use and how the code will be managed in the backend also.

In the next round, discussion took place on my resume. I was majorly asked about my work at PS2.

The last round was with the Cofounder of the company. He also asked questions on the basis of my resume only.

Sources of Preparation

Interview Bit, GeeksForGeeks





Sector: IT

Name: Aditya Agarwal (2014B3A30723P)

Company: VMware

Profile: Member of Technical Staff

Recruitment Procedure

- Online Test, Interviews, HR
- Test had 3 sections:
 - a. MCQs based on OS, OOP, Networks, DSA
 - b. Aptitude (MCQs)
 - c. Coding Question

It is important to study OOP, OS to clear this round because most people could do the coding question.

- Interviews – I had 4 rounds. First one was the longest. The interviewer asked me to introduce myself and asked follow-up questions. He then gave me a very simple pattern – making question which I solved instantly. Then a DP problem (Variation of bank robber <https://www.geeksforgeeks.org/find-maximum-possible-stolen-value-houses/>) which I solved after he gave me a small hint. Second round was mainly resume grilling. He asked me about my projects and internships. He then gave me a question on design pattern, specifically factory pattern (maybe because I had mentioned OOP on my resume). He then continued to ask questions based on core java (interface, abstract classes etc.). Third and fourth round were very short, around 10 minutes each. I think he wanted to know more about me. Questions – Why IT and not EEE, Why VMware etc.

Sources of Preparation:

Interview bit for DSA, OOP course slides, OS course slides or online videos

Courses and Certification:

OOP, OS, DSA, Comp Networks





Sector: IT

Name: RASAL KUMAR (2014B4A80801P)

Company: VmWare

Profile: Software Developer For RnD team

Recruitment Procedure:

- Coding Test, 2 Technical Interviews, 1 HR Interview.
- The test had 5 sections:
 - a. Aptitude
 - b. OOP
 - c. OS
 - d. Language Based on 2 sections among the following (C/C++/Java/ Python)
 - e. Coding Question
- Test was easy. Coding Question was given an array find 4 numbers a, b, c, d such that sum of one pair is equal to the sum of the other pair. (Hint: Used HashSet to solve in $O(n^2)$).
- Technical Interview 1 Questions:
 - a. Find the Pivot Element in a Rotated Array. (Hint: Binary Search)
 - b. Find Longest Prefix among N strings. (Hint: Simple Trie)
 - c. Implement Stack Library Using array.
 - d. Puzzle: https://www.mycoted.com/Four_Men_in_Hats
 - e. Questions on a project of Deep Learning Based on My resume
 - f. There are 2 files and both are similar except that they contain a word different. How would you find that word? This question was not related to DSA and he didn't expect me to answer as well. He told we can SHA both files and then use the binary Search on the HashCode of the file.
- Technical Interview 2 Questions:
 - a. Things from my resume. I had written Google Cloud Platform & VNC so he asked about it.
 - b. An office has to employ 100 people for its centres at Bangalore and Hyderabad respectively. There are two cost matrices given. One containing the cost of each person to Bangalore and the other containing the cost of each person to Hyderabad. How would you minimize the maximum cost? (Hint: Think the recursion in terms of Knapsack).

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c. Given an Array containing Zeros and Ones. Find the largest subarray with equal zeros and ones? (Hint: Convert 0 to -1 and Calculate the prefix array. The maximum difference when the values of the prefix array is same gives the answer).

SHR Round:

- d. Tell Me about yourself
- e. About your family.
- f. Rate yourself in Computer Science
- g. 10 Qualities of Leadership.
- h. Work as Hockey Captain
- i. Given an Offer would you prefer Bangalore or Pune?

The Interview procedure took about 4 hours. After the Second tech Interview the interviewer was very happy and he congratulated me afterwards and told about the work. HR interview with POR's becomes easy.

Sources of Preparation:

InterviewBit, Hackerrank, Codechef, HackerEarth

Courses and Certification:

Algorithms I and II (Princeton Coursera), OOP, OS, Deep Learning Andrew NG (Not Needed).





Sector: IT

Name: *Abhishek Singh*(2014B2A20150P)

Company: Zilingo

Profile: Software Developer

Recruitment Procedure

First round was coding round. 4 question were asked those who did complete 2 were shortlisted.

After that, there were 3 tech rounds in which DSA and java were primarily asked. They checked in-depth knowledge of java. In DSA, they asked only upto trees but asked to write code on papers for all questions. They asked the internal working for heap and hashing in java. For DSA, anyone who has solved problems in interviewbit would not face any difficulty. At the end one or two question asked from dbms.

Finally, there were HR round. There is no preparation required for this round since no question was asked in this interview.

Sources of Preparation: Geeksforgeeks and Interviewbit for DSA. For OOP- lecture slides of Avinash Gautam and videos of Telusko. For DBMS- Videos of Sanchit Jain.





Domain

Mechanical

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Sector: Mechanical

Name: Atul Jala (2014B1AB0058P)

Company: AB InBev

Profile: Supply Management Trainee

Recruitment Procedure

1. Cultural Fitness Test: It was like a psychometric test in which some situation was given along with 4 options and we had to choose the one which we would do if those situations arose. There were almost 20 such situation-based questions.
2. Logical Fitness Test: The test was English and Maths based. There were 4-5 sections, each taking less than 5 minutes. Questions were easy but being accurate was the key, considering some sections had 5 questions and time allotted was 2 minutes. English based questions were reading comprehension and Maths based questions were data/graph based.
3. Shortlisting: After the above two rounds, some students were kept in waitlist and others in the final list. Total 47(approx.) students appeared for the interview round.
4. Technical Interview: Technical questions were asked. There was only one panel which was interviewing all students irrespective of the branch. They had questions for all the branches.
5. HR Interview: As the Technical Interview was over, the student would be told whether he had made it to the next round or not. Here too, there was one panel.

Sources of Preparation

1. Made Easy Handbook for Mechanical Engineers: It explains all the chapters in 4-5 pages, it's important to go through this so that you can recall all the basic points.
2. SOP Reports: It's important to read the SOP report, whatever you have written, good or bad, comes very handy at the time of the interview. It's hard to recall your second-year project results/findings when you reach final year. Same is with the PS-1 report.
3. Go through the company website, see what type of candidates they are looking for. These things are generally present in the **Careers** section. Include those qualities in you for the HR round.
4. Attend the PPT of the company seriously. Come early and sit in the front row. In the HR interview I was asked, what point did I like the most in the PPT.

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Courses and Certification

- Disciplinary Electives are very important. The order in which you write this in the resume is also very important. Write the courses in which you are good at first and then the hard ones later. They will always ask questions from the DELs. I did the following DELs
 - Quality Control
 - Lean Manufacturing
 - Computer Aided Manufacturing
 - Sustainable Manufacturing
- Apart from the above ones, Power Plant Engineering and PMFM would be good courses to write. One of the interviewers was from Department of Utilities, which is responsible for the supply of air and water in the plant. He asked me questions on turbo machinery as I had my PS-1 in a cement plant.

Other Relevant Information

- It's good to bring some blank A4 sheets with you, I was asked some questions on Quality Control and I answered those by drawing the graphs on the blank sheet. It makes things easy to explain.
- If you have designed anything in any of your project you can bring its pictures with you. I designed a Refrigerator in my thesis and I felt it would have been easy to explain if I had its pictures with me.
- You should have answers to questions like
 - What are you expecting from AB InBev?
 - None of your projects make sense to us. How will you contribute in our company?
 - You have worked on some cool projects. I think you will get bored with us. Our work is very redundant. (I was asked the above two, but one of my friends faced this question)





Sector: Mechanical

Name: *Yashashvi Tiwari (2015A4PS0181P)*

Company: Cairn India

Profile: Graduate Engineer Trainee

Recruitment Procedure

- **First Round-** Written test + Group Discussion-
 - **Written test-** 30 min test with 30 MCQ type questions covering basics of material science, fluid mechanics, heat transfer, thermodynamics and PMFM.
 - **Group Discussion-** A general topic was given. After a 1 min gap GD started.

Combined score of both the rounds makes you eligible for interview round.

- **Final Round-** Tech + HR interview-
 - Why is your CGPA so low?
 - Was mechanical always your preference?
 - Asked favorite core subject and then basic questions on that subject.
 - Resume grilling (Have a strong grip on Mech projects, if any).
 - Questions on Pumps (PMFM). (Many of the candidates were asked about this)
 - Comfort level with field work as per the job requirement (Try explaining it with any experience or internship which required use of tools and machinery).

Sources of Preparation: Basics of mechanical CDCs + strong grip on at least 1 subject, preferably among Material science, PMFM, IC engines, Fluid mechanics or Applied Thermodynamics will help you get through both written test and the interview.





Sector: Mechanical

Name: Divyanshu Goyal (2014B4A40694P)

Company: Michelin

Profile: Analyst

Recruitment Procedure

- Online aptitude round
 - Consisted of basic quant and DILR questions
 - The cut-off for the test was 75%
- Online personality test
 - Had to complete 86 situation-based statements in 25 minutes
- 2 HR interviews (Questions asked are listed below)
 - Tell us about yourself
 - Where do you see yourself in 10 years? Why Michelin?
 - Diversity check- They check if you are willing to work in a diverse work culture
- 2 Tech interviews
 - Questions about everything mentioned on your resume
 - If they feel one of your projects (PS2 or academic) falls in line with the job profile, follow up questions can be expected
 - 1-2 questions related to FEM modeling, meshing

Sources of Preparation

Be thorough with all your resume point and make sure you're able to justify everything you say.

Courses and Certification

None. Technical skills not tested in online tests or interviews.

Other Relevant Information

The recruitment process was completely FIT based rather than SKILL based since Michelin provides 1.5-2 years of individual training. You need to convince the interviewers that-

- you are willing to learn
- you can work in diverse cultures





Sector: Mechanical

Name: Akash Sharma (2014B5A40866P)

Company: Suzlon

Profile: Assistant Manager

Recruitment Procedure

Group Discussion: Topics on general issues.

Technical Interview: Detailed discussion on work done during internships (in case of core); technical questions asked otherwise.

HR Round: General HR questions - Introduce yourself. Why do you want to join the company? How are you a good fit for the company? Interests, strengths, weaknesses, etc.

Sources of Preparation

Basic knowledge of the subjects taught in your engineering branch.

An internship in the core sector will help. Be thorough with the work that you have done and explain it clearly.

Other Relevant Information

Justify your interest for working in the core sector.

Be honest with your future plans.





Domain

Education

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Sector: Education Sector

Name: Guggilapu Mouli Sai Ram (2015A2PS0677P)

Company: BYJU'S

Profile: Creative Content Developer

Recruitment Procedure

Online Test, Offline Test, Technical Interview, HR.

- The pre-interview test (Online) was objective. It has 45 MCQs to be solved in 30 minutes. The question focused on Aptitude, Logic, Maths, Physics, Chemistry, Biology (Bio-10th Grade Level)
- The next stage was a paper-pen based (Offline Test) (1 hrs) (sections), have to make a creative story board/script for any topic of your choice for 5th grade student. (watch some Byju's videos on YouTube for your understanding)
- In technical round (kind of rapid-fire round) you have to choose one subject of your choice from (preferably from Physics, Maths, Chemistry, Biology). If you are really confident you can opt subjects like (History, Commerce, etc.). then they will check your concepts depth (Basic to Advanced Level) and might ask to solve or derive some problems. It lasted for 30-60 mins. Questions on resume and feedback/questions/explanation on the offline test answers.
- HR round is the last round and it's skype/hangouts based. Be prepared for this round prior!!

Sources of Preparation

Be Crystal clear with basic concepts. Be clear why you are sitting for this interview.

Other Relevant Information

Have good communication skills, and answer with confidence.





Sector: IT

Name: *Srishti Sharma(2015A5PS0952P)*

Company: Byju's

Profile: Content Developer

Recruitment Procedure

- Online Test consisting of simple questions from Physics, Chemistry, Biology and Mathematics.
- Interview- An online interview where detailed knowledge of the above mentioned subjects was checked. I was also asked about my PS-2 project.

Sources of Preparation

I brushed up basic concepts from our first semester course material- Physics, Chemistry and Biology textbooks.





Sector: Others

Name: *Vishnu Shankar (2015A4TS0425P)*

Company: Byju's

Profile: Content Developer

Recruitment Procedure

- Online test, written test, interview, takeaway assignment and 2nd interview (only have to do if they want to evaluate you better)
- Online test contained question from math (mainly from geometry, sequence & series, probability, P&C), physics, chemistry and aptitude. Important point here is to do easy question first and then to do difficult one as time was less. Though they did not reject a single student so this test is not of too importance but better not to take chance
- Written test is important. This test will happen immediately after the ppt and in ppt they show one video made by their team which is an entertaining educational video on simple topic (e.g.- why moon does not fall on earth). You have to make an entertaining script along with 5 M.C.Q with explanation and answer. They will even allow internet for the test but the internet will have network problem in F.D-2. It's better to develop content beforehand and get it peer reviewed before giving this test
- In interview they will ask to choose class X or XII and your favorite subject and then will ask you on that subject. They can or cannot give you take away assignment. Both the situation doesn't guarantee that you are selected. (I was not given takeaway assignment)
- In takeaway assignment they again ask you to make a script of simple topic like written test given earlier and then again ask few questions in interview.

Sources of Preparation

- Watch few of byju's educational video and develop the content of written exam beforehand and make it entertaining on a simple topic and get it peer reviewed. (Topic may be like the color of sky, centripetal and centrifugal forces – by sitting on merry go round etc.)
- For interview brush up your basics, focus on newton's law, friction and contact force, how do we walk, graphs, limits continuity and differentiability





Courses and Certification

- Not required but better to mention any teaching experience you had like that in NSS School in Interview.

Other Relevant Information

The most important part is choosing class and subject at the time of interview because it might happen that your interview went well and was not given any takeaway assignment and you will not get selected because the other person who selected same class and section as you have given better interview and they select only one student from each subject and class. So, if you are not very much confident then better to choose subject like XII chemistry which few of the student will choose in interview. If less people will choose that class and subject and interview does not go well then also, they will give take away assignment and will take 2nd interview and will eventually choose you. (I chose 10th Physics and also mentioned that can teach 10th Math. So, in my first interview was asked around 40 basic questions from both 10th Physics and Math and up to few extents from 12th as well and answered them all with proper reasoning, I was not given any takeaway assignment so did not have to face 2nd interview as well).





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