BITS Pilani
Pilani Campus

INTERNSHIP CHRONICLES

SUMMER INTERNSHIP
(May-July 2020)

Placement Unit
BITS Pilani – Pilani Campus
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Sector: Mechanical

Name: *Bhagyesh Trivedi(2017A4PS0529P)*

Company: Bajaj Auto

Profile: Research and Development

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview and HR Interview
- CGPA cutoff: 7
- Online Test: The test had 4 sections - Aptitude, English, Math and Core. Core section had~50% weightage and included questions from Material Science, Mechanics of Solids, IC Engines, Fluid mechanics, Heat-transfer, etc. The test had a 25% negative marking for all sections. Around 10 people were shortlisted after Round1.
- Interview Round:
    - Technical Interview: No need for extra preparation, just be thorough with your Resume. Be clear with the technical details of your project. Most of the discussion will be based on your resume.

    - Round 1: A general interaction about you, your college life, projects, etc. It felt more like a discussion rather than a technical interview. The interviewer asked about my projects (Formula Student) and about my hobbies(photography). The discussion was mainly focused on my Formula Student projects (what was the objective, problems faced, my contribution to solving those issues, etc.). In case you face a difficult question, wait and think about what can the correct answer be rather than giving up or saying rubbish.

    - Round 2: This round was a bit more intense (a grill round). I was asked in-depth questions about my project and its theory. Other than that, I was questioned about my academic performance and even faced some technical questions about my hobby(photography). The purpose of this round was to grill the candidate and check if what his resume says about him is valid.

The whole discussion was based on my projects (Formula Student). As I was a part of a technical team, I had great technical projects in my resume compared to my peers. My internship details were confidential, so most of the technical discussions were based on my academic projects from FS.

    - HR Interview:

It was a combined round where I was asked some tough technical questions along with questions like my expectations from the job and why automobile sector etc. The HR's might trick you in saying your

future plans about MS/MBA. Keep your presence of mind and be witty in answering such trick questions. Always avoid mentioning about going higher studies!

Sources of Preparation

- None as such, class notes if required.

Other Relevant Information

Be thorough with your resume. You will be grilled on everything that is mentioned in it. Try to do at least one SOP/DOP/LOP in your second year. If you are a part of a technical team you have better chances at securing core internships. If someone has very few projects his technical discussion may be focused on the PS-1 project. The interview process greatly differs from company to company so prepare accordingly. Be confident and logical. The cut-off varies from company to company but try to maintain at least 7 CG at the end of your second year.

Don't generalize the internship process. It's very different for different companies even in the same sector. So, don't take a word from someone that CG doesn't matter or PORs are useless, etc. It may be the case for some but not all companies. In the end, it boils down to the candidate's profile and sheer luck.

Sector: Analytical Consultancy
Name: *Rahul Bhagtani(2017A4PS0364P)*

Company: ExxonMobil

Profile: Analytical Consultant

Recruitment Procedure

- CGPA cutoff: 7
- Group Discussion: The group discussion was conducted in a very standard manner. The topic to most of the groups given was based on the problem the company might be facing on a broader sense. So, having a good technological/manufacturing insight can be of help but not necessary. Go with confidence for interviews and GD. Your ability to speak will decide your result.
- Interview Round:
    - HR Interview: The HR round was the second and final round with the company. Therefore, it is crucial as one doesn't get many chances. The HR was trying our ability to speak and judging the confidence/anxiety level the interviewee had as the opportunity was big. However, they try to make you comfortable as soon as you enter the room. They are there to hire you and not to grill you. The questions were mainly based on the CV which you take with you and therefore it must be well written and be foolproof. You MUST know what you have written and be able to justify that.

Other Relevant Information

- The profile offered is analytical consultancy. It is not a technical core profile but knowledge in the fields of Mechanical and Chemical Engineering would be required to draw insights from the data that we will be working on. (Mostly supply chain and Business development side).
- Have good conversational skills and be confident when you speak. There is a thin line between confidence and overconfidence which be looked out for.

Sector: Core
Name: *Kishlay Jha(2017A1PS0580P)*

Company: Reliance

Profile: Manufacturing

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview, HR Interview.
- CGPA cutoff: 7.5
- Online Test: 2 sections (1 aptitude and 1 core); Core was mainly formula-based.
- Interview Round:
  - Technical Interview: Questions on Distillation, Pumps, Valves and few questions on general awareness (Corona, CAA).
  - HR Interview: Talk about your personal life and college experiences

Sources of Preparation

Youtube : SaVRee 3D, Sandeep Academy; PS1 Report; Random Google search

Other Relevant Information

- Since my PS1 was in Mathura Refinery, so it was very important for me as Reliance also came for Refinery working only.
- Describe your life experiences positively.
- Don't panic if you couldn't answer a question or two. They will give you ample chances.

Sector: Core

Name: *Ritik Gupta (2017A1PS0837P)*

Company: Reliance

Profile: Operations

Recruitment Procedure

- Recruitment procedure included Online test, technical round and a final HR round. The CGPA cut-off was 7.5.
- Online test contained two sections. First is aptitude which has 30 questions in 30 minutes. Second is technical section which contains 50 questions in 30 minutes. No question will be very tough and most of them will be formula based.
- Technical Round: As I told I revised my PS report thoroughly and read in detail about the basic instruments used in refinery such as pumps, distillation column, heat exchangers and valves. It was a short interview and I was basically asked 3-4 technical questions. 2 questions were on pumps and 1 was on compressor.
- HR Round: General HR questions. They will ask nearly everything in the resume so be prepared for that. Also, before the interview process, they will ask you to fill a form to know more about you. They will also ask questions from that Why Reliance? was the one question which they majorly stressed and asked 2-3 times to check my clarity.

Sources of Preparation

- My main source of preparation was my PS-1 report. As my PS-1 was in Indian Oil Refinery so the report was quite helpful in preparation.
- As both my PS-1 and internship work was related to Petroleum refinery, it helped a lot in showcasing professional work experience and preparing answers in this respect really helped.

Other Relevant Information

- Be thorough with the fundamental concepts and the basic processes and instruments used in refinery. They will not ask very tough questions so you just have to be confident and present your answers clearly.

- They offered 2 roles for the internship. One was related to operations and involved on-site work and the other was related to design of equipment and management. You first have to choose between the two roles before the interview process.

Sector: Mechanical

Name: *Anirudh Krishna S (2017A4PS0406P)*

Company: Hindustan Unilever Limited

Profile: Supply Chain Intern

Recruitment Procedure:

- CGPA cut-off: 7.0

- **Group Discussion:** Five minutes were given to go through a case study. Following this, 20 minutes were given to discuss as a group and answer the questions given in the case study. The last five minutes were to come up with a conclusion/summary of the discussion and present a solution that has been agreed upon by the members of the group (10–11 in each group). The group discussion was used as a tool to understand not just one's communication skills. They also looked for how students understood the problem statement and approached relevant solutions.

- **Technical Interview:**
    - **Round 1:** Strong fundamentals of CDCs will help a lot. Technical questions were simple and straightforward but tested the students' understanding of the basics. The follow-up questions were all related to your answer's effect on the experience of the customer. Questions about drag and lift forces in an aeroplane will quickly be followed by how turbulence affects the passengers and how a pilot should manoeuvre the plane in such conditions. Questions about alternative fuel in passenger vehicles will be followed by how it will affect the driver experience and passengers' ride comfort.
    - **Round 2:** Once again, fundamentals of CDCs were put to test and questions revolved around the effects of one's project on the end-user's experience. Questions related to the subject in the second technical round were more about reasoning. There were more 'Why?'s than 'How?'s.

- **HR Interview:** The HR round revolved around my résumé and PoRs. Towards the end of the interview, a solution for a real-world scenario had to be suggested.

Sources of Preparation:

Course material and project reports

Other Relevant Information:

Be prepared to answer questions about the simplest or most trivial concepts that test your understanding of the subject. Do not list a subject that you are unsure of in your résumé. Base answers, right or wrong, on logic and reason. Be confident and coherent throughout group discussions and interviews.

Sector: **Mechanical**

Name: *Srinivas Naveen Laghuvarapu (2017A1PS0801P)*

Company: Reliance Industries Limited

Profile: **Internship Trainee**

Recruitment Procedure:

- CGPA cut-off: 6.5
- **Online Test:** Online test consists of two sections and is of one-hour duration. The first section consists of 30 aptitude questions to be solved in 30 minutes and then a technical section consisting of 50 questions to be solved in the next 30 mins.
- **Technical Interview:** Started off with non-technical stuff like family background and ideas on leadership for a couple of minutes. After that, technical questions on distillation related to reflux ratio, tray efficiency, pumps, heat exchanger design, control valves.
- **HR Interview**: A typical HR round where they ask about family, other areas of interest, strengths. An application form was to be filled before where we mention all such details. Questions based on that were also asked.

Sources of Preparation:

- Lecture slides to cover all the fundamental concepts which will be helpful in the online test. Text books of fluid mechanics, McCabe and Smith, Heat transfer for in depth understanding of important topics.
- Searched online about the interview round of RIL and also the experiences of candidates on Quora to know the main topics to be covered and an overall idea of how the interview goes.

Other Relevant Information:

Proper understanding of the projects is needed as they ask questions related to that in detail in the technical interview. Knowledge of all the basic equations and formulae of all CDCs will help you perform better in online test as they ask relatively simple questions in that.

Sector: Mechanical

Name: *Prakhar Munde (2017A4PS0538P)*

Company: **ExxonMobil**

Profile: **Consulting and Analysis**

Recruitment Procedure:

- CGPA cut-off: 7.0
- **Group Discussion:** The topics for the Group Discussion are open-ended. The stand that one takes on the topic is not what is important, but how he/she substantiates it, is. The topic for our GD was 'One nation, One election'. We initially had two minutes to think about it. Then, there was a discussion for 10 minutes between the 7 participants in the room. Finally, everyone was given 45 seconds to sum up their point and conclude their argument.

- **Technical Interview:** The interviewer keeps asking personality-based questions, at regular intervals throughout. Besides this, they focus majorly on the things mentioned on the resume. As I had been a part of a technical team and had mentioned about projects related to it, they asked me to explain my project related to it briefly, and further asked some questions related to it as well. Similar approach is followed and questions are asked on the projects done during PS-1. In my case, I was also asked to explain the relevance of my projects in the modern automobile industry, which I had earlier mentioned to have specific interest in.

- **HR Interview:** The questions asked to me were related to the PORs that I had mentioned on the resume. They gave some hypothetical situations that occur in some team I am a part of, and asked me to react to them. Besides this, there were personality-based questions throughout the interview.

Sources of Preparation:

No specific source of preparation. However, if you have some specific interest in any core subject, and have some technical projects/courses on your resume, the textbooks for the CDC/course material shall suffice. An alternative could be any book that covers the fundamentals of the subject, which you need to be thorough with.

Other Relevant Information:

Try to be composed during the interview. I went through my resume a several times before appearing for the Technical Interview. Under the category of projects on my resume, I had mentioned about the projects I did on my PS-I, so I went through the final report of PS-1 as well. Improve your communication skills. One of the most important judging criterion for them was Good Communication skills, having which can make you have an edge over your counterparts.

Sector: ET
Name: *Varsha Singhania (2017A8PS0563P)*

Company: Google Hardware

Profile: Hardware Engineer

Recruitment Procedure

- The Recruitment Procedure: Resume Shortlisting, Technical Interview
- Interview Round:
    - Technical Interview: I had thoroughly gone through Morris Mano, which is the prescribed textbook for Digital Design, with special focus on the Verilog sections. Apart from that, I had tried covering some parts of Analog and Digital VLSI Design from online sources. Browsing online for interview questions helped boost confidence.

    - Round 1: I was asked 4 questions. 3 were based on Verilog coding and focused on different types of modellings. Code indentation was specifically focused on and fluidity in the language was also gauged. Verilog questions involved concepts from Digital Design. The fourth question was from basic electronics and to gauge intuitive thinking. Knowledge of Analog electronics could have made solving the question easier.

    - Round 2: This again had 4 questions. The first was an application-based question, which involved basic knowledge of memory organization. The next 2 were again based on Verilog and involved concepts from Digital Design. The last was based on caches (Computer Architecture).

Sources of Preparation

- Morris Mano, Random browsing.

Courses and Certification

- Courses to be focused on: DD, MuP, MuE, ADVD, Analog Electronics, Computer Architecture.

Other Relevant Information

- I would suggest my juniors to develop clarity in the courses taught. In my experience, interviewers don't exactly ask tough questions (with a few exceptions), they mean to test clarity in basic concepts itself. Practicing Verilog could also be useful for certain companies.

- Topics vary quite a bit from interview to interview, with a high probability of questions based on HDL

(Verilog/VHDL). Besides that, questions are based on Digital Design, Analog and Digital VLSI Design, Microprocessor systems and Computer Architecture.

- Projects and Internships: The first round of shortlisting was based on resume. My internships (including PS1) must have helped me get through that round. It also gave me good material to speak about in my second interview which was a positive.
- I was asked to explain one of the projects I had listed down in my resume. Though none of the questions that followed were based on that, it helped me set the tone for the interview.
- Keep revising basic concepts and have a healthy group of friends around.

Sector: ET
Name: *Priyam Upadhyay(2019H1230082P)*

Company: WDC

Profile: Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview, HR Interview and single telephonic interview for both technical and HR.
- CGPA cutoff: 7
- Online Test: Analog and digital electronics, aptitude-based questions.
- Interview Round:
  Technical Interview: I studied the core electronics subjects and apart from that, also topics that were relevant to the work that's actually carried out in the company.

    - Round 1: Interview started with basic HR questions (about yourself, interests etc.). Then it swiftly moved towards my projects and questions related to that. My project was based on microcontrollers and their programing, so after a few questions on the microcontroller I worked on, interviewer quickly moved on to C programing, asking about data types, when and where to use them, then different data structures and their implementation. Few algorithm questions were asked which I answered although I was not very proficient in that. They somewhat guided me to some answers and after that concluded the interview.

Sources of Preparation

- Microelectronic circuits: Sedra and Smith
- Digital integrated circuit: Jan rabaey
- C programming: E Balagurusamy

Courses and Certification

- Courses to be focused on: Electronic Devices (and subsequent courses), ADVD, MuP, MuE and Data structures and Algorithms.
- Basics of computer programming, data structures, algorithms, ADVD.

Other Relevant Information

- Try to find out about the company and what they are working on, questions indirectly relate to some technology or tools being implemented by them.
- Just keep up with core electronics subjects. Practical knowledge goes a long way.

Sector: ET
Name: *Nayan Nilesh(2017A3PS0190P)*

Company: Western Digital- San Disk

Profile: Summer Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview and HR Interview.
- CGPA cutoff: 7
- Online Test: The online test has 2 sections: Aptitude & Technical. There were 40 questions in total to be answered in 45 minutes. Marking scheme: +1/-0.25 (No. of Qs section-wise denoted in (_))

  Aptitude section (10) contains basic mental ability questions. No preparations required as such since most of you've had prior experience in various Olympiads/NTSE.

  Technical section (30) consists of 2 subparts; Electronics part will be comprised of Digital (majorly) as well as Analog domain. CS part may contain questions from basic CP knowledge as well as some of the basics of DSA & OOP.

  Online test is the obstacle in which most of the students are screened out. In my experience, many of them fail to manage the time given that there's quite a shortage of it. Time management becomes crucial for this round. So, plan accordingly & attempt the test. (A score of around 30+ mostly will land you in the safe zone).
- Interview Round:
  Technical Interview: Majorly from the class notes and textbooks. I also glanced through the previously asked questions a day before my online test & interview for getting better clarity on Glassdoor, etc. Some sites were useful in quick revision such as https://www.electronics-tutorials.ws

  - Round 1: Technical interviews of all the shortlisted candidates were different in nature. But in general, the interview could be divided into 2 broad sections: Technical aptitude: You can expect questions related to Electronics from these topics: Digital Design (most important), MuE (for analog circuits), ADVD (no need to worry, they'll ask only basics since it'll be an ongoing course for you) & Control Systems (basics). For the CS part, basic knowledge of CP is expected. Mostly pseudocode will do as they want to test your logic rather programming skills. Mental aptitude: You'll be given mental ability questions in the form of a riddle/puzzle. The point of interest for the interviewer is your thinking process & NOT the final answer. So, you'll need to effectively communicate your thought process. Sitting blank & saying the final answer

without reasoning won't do any good in this case & may leave a bad impression. Therefore, you should be confident in answering but at the same time be friendly & respectful towards the interviewer. Try to make your interview interactive throughout.

- HR Interview: HR round was just a basic interview with the HR from Western Digital. It's generally a non-elimination round because almost all the elimination process is already done in the previous rounds. But it's a MUST for students appearing for HR round to be thorough with some key company information (like recent acquisitions, CEO, etc.), history (you'll find a surprise in one of the founders' history!), etc. You can also ask HR to elaborate on your role during the intern and related things. The only concern in this round may be for HIGH CG students. They might be asked a tricky question - Job or MS?! So be prepared to answer these kinds of questions (You can find many suitable answers online!!).

Sources of Preparation

- Mostly class notes & course textbooks. Also, some sites are useful for the Electronics part: https://www.electronics-tutorials.ws (good for revision) & also you can look for previously asked questions by Electronics companies during the hiring process from Glassdoor, etc.
- For CS part, only the basics of DSA (complexity, etc.) & OOP (access modifiers, inheritance, etc.) is sufficient which can be covered within a week. Plenty of resources are available online such as from G4G, InterviewBit, etc. (If someone is not confident in CP, it is advised to revise the basic C syntax also). This may also help you during the internship.

Courses and Certification

- Courses to be focused on: DD, ADVD, MuP, MuE and some basic knowledge of DSA and OOP will be useful.
- Extra Certifications are not required for this profile as an intern. (Recommended to do MOOCs only if manageable but college courses are to be given the most importance for Electronics profile).
- For CS knowledge, there many good specializations like Algorithms Specialization offered by Stanford University (on Coursera & language-independent) & also by Princeton University (in Java, which will cover OOP basics as well) but it is NOT compulsory for this profile. It would help in general profile building.

Other Relevant Information

- Although my project wasn't discussed in my interview, other shortlisted candidates were asked about it in detail. But, my PS-1 project at DRDO was one of the major points in resume (It would have helped in general for any ET company resume shortlisting process). Make sure that you are thorough with every detail of the project listed in your resume. Also, it's advised to make different resumes for different profiles as well as companies too (some companies have different preferences that you may know by looking up online). Same goes with the courses & electives listed in your resume (DON'T try to flaunt yourself, might get caught during the interview).
- CGPA is used for only clearing the cutoff which is usually around 7. After that, it doesn't have much

relevance. ONLY your concepts will matter in the end (Understanding of projects & other points in your resume is ALSO very important).

- Apart from all the preparation stuff mentioned above, it's equally important to have a passion/motivation in this field. This will help you in contributing better during your internship which may ultimately land you a PPO! Also, during 3rd year (for single-degree, 4th for dualites), it's recommended to take at least one of these DELs which will prove useful during the internship: OS & CompArch. Embedded Systems (& some HD courses you can look for which is related to this profile) could also be taken up for gaining more insights, although FD courses are recommended for most of the students.
- It's advisable to maintain different resumes for different profiles as well as companies. Since the deadlines are near, you don't have the time during the internship season to manipulate your resume. So, you must complete all that process beforehand (preferably during PS-1 or starting month of the semester). Also, preparation MUST be company-specific. Like in my case, I knew that WDC was inclined towards the digital side and also that online test contains many questions to be solved in less time (via Chronicles). So, it really helped in achieving my target.

Sector: ET
Name: *Yash Varshney (2019H1230073P)*

Company: Texas Instruments

Profile: Analog Intern

Recruitment Procedure

- Resume shortlisting, Online Test (Aptitude, Technical etc.), Technical Interview, HR Round
- CGPA Cutoff: 7
- The recruitment procedure is more or less similar to other ones. They have shortlisting, then Round I for technical interview (which is mostly deciding one) for internship and then HR.
- Online Test: Their were 20 aptitude and 40 technical questions including 20 each for Analog & Digital domain. The questions were mainly application focused and require crystal clear understanding of the basic concepts of Network Circuits, Digital Electronics & Analog Electronics.Bode plot, RC circuits, simple op-amps configurations, LP and HP filter (frequency analysis), pole-zero locations and Mosfet operation related questions are commonly asked.
- Preparation for Technical Round: Just the revision of basic concepts of Analog and Digital Electronics and solving out some standard problems given in the standard books or in Competitive preparatory material.
- Technical Round:
    - The first interview was for analog domain and taken through video conference. It started with some basic network theory questions based on RL, RC & RLC circuits(frequency response) and went on with some more complex ones. They are more interested in getting the problem solved and analyzed intuitively rather than having a mathematical solution to it.. Second interview for Digital domain was more inclined towards the VLSI Design which included questions related to CMOS inverter, Static Timing Analysis, Flops and layouts for Digital IC. Basics of BJT and MOS.
- HR Round: HR round was a telephonic conversation about how the interview was, the level of questions asked, about the interviewers and which domain I would prefer. Analog or Digital.

Sources of Preparation

- For Analog: Ch2 of Analog Electronics by LK Maheshwari, Fundamentals of electrical engineering from any standard book and Opamp.
- For Digital: Digital IC Design by Jan M Raebey and Digital Design class notes.
- Important Courses: MuP, MuE, ADVD, Analog Electronics

Other Relevant Information

- Be crystal clear with the core concepts and think open mindedly for the solution rather than writing big mathematical equations in interviews.
- Projects: Yes, they do. From projects, if done seriously you to get know of practical design related problems which are equally important as conceptual ones.

Sector: ET
Name: *Rithik Dilip Rathi (2017A3PS0266P)*

Company: Samsung Semiconductors

Profile: Digital

Recruitment Procedure

- CGPA Cutoff: 7
- Rounds: Online Test (Aptitude, Technical etc.), Technical Interview, HR Interview
- Though we were initially asked the profile we wanted to apply for, it is always better to not leave the concepts of the other profile (Analog or Digital) totally aside. You should have a basic idea of concepts from both domains. To name a few topics, common combinational and sequential circuits should be known to you, Timing analysis, Power consumption of circuits, Basics of solid state devices and their working and a good grasp on important topics covered in the course Microelectronic Circuits.
- Online Test: The test consisted of 4 sections, having 1,2,3 and 5 marks questions respectively. Some of the questions which I remember were based on simple digital logic circuits,counters,charge conservation in capacitors,a lot of questions on opamps,some questions on processor instructions and syntax, some basic electrical circuits with independent and dependent sources, two questions on C,etc.
- Preparation for Technical Round: Once I was shortlisted, I went through my notes on Digtal Design and Microelectronic Circuits and ADVD, and various online blogs and websites for practicing questions of different topics.
- Technical Round 1:
    - My first round was a digital round, in the digital interview, I was asked a number of fundamental questions on latches, different types of flip flops, flip flop conversions, Counter circuits, power consumption and comparison between synchronous and asynchronous circuits. Timing analysis is one of the most common thing asked and is somewhat tricky, so you should have some practice in solving questions on timing analysis. Another thing asked was to draw the complete waveforms for a digital inverter depending on different input waveforms and explain the change in the region of operation of mosfets according to the input.

- Technical Round 2:
    - I had a second round mainly revolving around questions from the analog domain, even though I selected the Digital profile while applying, so its important to be prepared. I was asked questions based on simple MOS functioning based on threshold voltages and other parameters, a question based on inverter based latch and was asked to draw the characteristic for a specific input and another question on Elmore delay model. Suggesting Rabaey and Razavi for Analog.

Sources of Preparation

- Class Notes, Text Books, Online Material
- Important Courses: DD, MuP, MuE, ADVD, Analog Electronics, Basics of SAS, CONSYS and ED will help.

Other Relevant Information

- Start preparing early and be thorough with your basics concepts. Try to maintain good notes and have a good hold on them.
- Projects: I was not asked about my projects in the technical interviews but yeah I discussed it briefly in the HR round.
- MYTH: Only the high CG people can get a internship. Its totally wrong to think like that as once you clear the cutoff, it all comes down to how you perform in your interview and how well prepared are you.

Sector: Electronics
Name: *Bhagyam Gupta (2017A8PS0525P)*

Company: Samsung Semiconductor India Research, Bangalore

Profile: Student Trainee (Digital Domain)

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview and HR Interview
- CGPA cutoff: 7.5
- Online Test: Online test was completely MCQ based and had only technical questions. Questions were divided into 4 different sections based on their difficulty level and the marks (1,2,3,5). 1 and 2 marks questions were easy and more in number compared to 3 and 5 marks questions. Time was not much so speed mattered a lot. Questions were mainly from Digital Design, Analog electronics, Electrical sciences and few from the Control systems, Microelectronic circuits and MuP.
- Interview Round:
    - Technical Interview: I was interested in digital domain so started with revising the concepts of Digital Design from textbook(Morris Mano), notes, slides and online resources, revised the concepts of ADVD (till the part it was covered in class) from notes and textbooks(Kang and Rabaey) revised MuP from video lectures and notes. Prepared for interview questions available online and from chronicles. Made sure I was able to well explain my projects and was prepared for cross questions. As I mentioned Verilog in skills section in my Resume so practiced some questions on Verilog.

    - Round 1: I had only one technical round which went for more than an hour. It started with general interests and hobbies. Then some questions based on flip-flops (functioning, design, setup and hold time). Later asked many questions were highly derived from the ADVD(Digital Part), he knew the course is not taught completely yet, so he helped me reaching to the answers. And approach of solving the problem and getting to the answer is what he was looking for. He gave me sufficient time to solve problems. Make sure you write and speak out your thoughts while solving problems as they refer your rough sheet for future reference. Interviewer was chill and made sure I was not nervous throughout the interview.

    - HR Interview: Introduction, Hobbies, About family , Why Samsung , about PS-1 project and asked if I had any questions from them.

Sources of Preparation

- Digital Design- Morris Mano , class notes, slides. Practice questions from book and previously asked

GATE papers.

- ADVD - Kang, Rabaey, notes.
- Analog - Razavi, Sedra, notes.
- Mup- video lectures, notes.
- Elecrical Science - Textbook.
- Control systems- notes.
- Verilog - online resources and book by Samir Palnitkar.

Other Relevant Information

Many would tell you it's very hard to get placed in this sector but trust me if you are genuinely interested it's not. And taking your academics seriously is more than enough to be prepared for the electronics companies. Textbooks are well written and are sufficient for most of the courses. Attend lectures, maintain CGPA and do prepare for internships well in advance.

Sit for all the companies you are applicable for, which gives you experience. Keep patience for companies in electronics sector to arrive if you are solely interested in them. Start preparing in summer break itself and be confident.

Sector: Electronics

Name: *Gaurav Patel (2016B2A30745P)*

Company: Western Digital (WDC) - Sandisk

Profile: Internship

Recruitment Procedure

- Recruitment procedure involved Resume Shortlisting, Online Test (Aptitude, Technical etc.) HR Interview and Technical Interview. CGPA cut-off was 7.0.
- The Online Test involved Mental Aptitude and electronics questions. For the Technical round, Electronic devices, Digital Design CDC, Mental Aptitude and Electronics based questions are important.

Sources of Preparation

- Digital Design
- Electronic Devices (and subsequent courses)
- Microelectronic Circuits
- Signals and Systems

Other Relevant Information

- Revise electronics and pay attention to details in your projects. CGPA is required but skills matter more

Sector: Electronics

Name: *Karthik G (2019H1230069P)*

Company: Western Digital

Profile: Digital

Recruitment Procedure

- Recruitment Procedure involved Online Test (Aptitude, Technical etc.) and Technical Interview. CGPA cutoff was 7.00.
- Knowledge of some basic concepts were sufficient for the interview. In the online round, questions were simple to answer, mostly speed of answering mattered. For the Technical round, I prepared some topics they asked in online test and also read previous interview experiences for the company. The final round involved a telephonic interview focusing on some digital concept.

Sources of Preparation

- Digital Design
- Analog and Digital VLSI Design

Other Relevant Information

- Revise the topics on the eve of the interview, that is one day before the interview.

Sector: Electronics

Name: *Sparsh Wairya (2017A3PS0115P)*

Company: Samsung Semiconductor India Research

Profile: Student Trainee- Digital Domain

Recruitment Procedure:

- **Online Test:** There was one online test of 1 hr consisting of MCQs. Almost all questions were from the 2nd year CDCs having different weights of 1M, 2M, 3M and 5M. The questions were mostly fundamental, and hence the speed of the candidate plays an important role. There were few coding questions as well, relatively easy. Few questions were from Analog Electronics.

- **Technical Interview:** The interviewer was a BITSian and was pretty chill. First of all, he asked me my favourite subject, and I told him ADVD. Then he started asking questions from ADVD. The starting questions were elementary, like draw a CMOS inverter, and he steadily increased the difficulty. Next, he asked questions based on Pass Transistor Logic and Transmission Gate Logic. He asked me to design a D flip flop using transmission gates and inverters. Finally, he asked a few questions based on Elmore delay. He went through my resume but didn't ask anything.

- **HR Interview**

Sources of Preparation:

Major Subjects ADVD: Both Rabaey and Kang (mentioned in the handout) DD: Morris Mano and notes MuE: Razavi and notes STA part: YouTube and Rabaey I used textbooks for all the other subjects.

Other Relevant Information:

Start revision before the start of the internship season. You won't get much time after the session begins. Be confident and primarily focus on the commonly asked topics. In my technical interview, I got two questions incorrect in a row, and the interviewer had mostly
given up on me. To his surprise, I got the next question correct. He told me that everyone who had come before couldn't solve that question. And then everything went right. So you need a bit of luck and don't doubt yourself if anything goes wrong.

Sector: IT
Name: *Suyash Kumar(2016B2A3PS0888P)*

Company: Dunzo

Profile: SWE Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview, Technical Manager Round
- CGPA cutoff: 7.5
- Online Test: Hackerrank test with 3 coding question to be solved in 90 minutes. First one involved STL, 2nd one was LC Medium level and 3rd one was DP.
- Interview Round:
  Brushing of DSA and OOP.
  Technical Interview:
  - Round 1: Group Fly round. A graph traversal problem was given which involved DFS and Backtracking. Second question was continuation of first. Time 45 minutes. Full code has to be written on paper in any programming language of choice.
  - Round 2: 1 algorithmic question was given for 45 minutes. A complete discussion of approach, dry run and then final code has to be written.
  - Technical Manager Round: Technical Manager Round Questions related to projects done before were asked. The interviewer mentioned some use cases and was checking the approach the problem. I did internship in my 3rd year. Some questions were asked from project done there.

Sources of Preparation

- InterviewBit
- GeeksForGeeks
- CodeChef
- Codeforces

Courses and Certification

- Courses to be focused on: OOP, DSA
- Focussed mostly on Data Structures and Algorithms.
- Practice on IB and Leetcode. Speed is the key. Keep reading GFG.

Sector: IT
Name: *Vishal Mittal(2017A7PS0080P)*

Company: Goldman Sachs

Profile: Summer Analyst

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview and HR Interview.
- CGPA cutoff: 7
- Online Test: 3 coding questions and 10 MCQs in 2 hours. MCQs were based on OOP, DBMS, Prob & Stats and Basic ML.
  Coding problems:
  1) Deterministic Finite Automaton (3rd problem directly from the Code Ninja section of InterviewBit)
  2) Travelling Salesperson Problem - DP with bitmasking (https://codingblocks.com/resources/travelling-salesman/)
  3) Again, a DP based optimization problem - One MCQ was asked directly from the famous 3blue1brown video: [The hardest problem on the hardest test] (https://www.youtube.com/watch?v=OkmNXy7er84)
- Interview Round:
  Technical Interview: Looked at GS previous interview experiences on GeeksForGeeks.
  - Round 1: Resume and project discussion (They go deep into project if you have mentioned ML). Some simple algorithmic problems. A probability question (Asked to prove it, not an intuitive guess), was based on something like cutting a stick in two parts and finding some mentioned probability.
  - Round 2: Algorithmic problems:

  1) A simple matrix-based problem (Asked to solve in linear time)
  2) Given a binary tree, check whether it is a mirror of itself (https://leetcode.com/problems/symmetric-tree/)
  Some probability formulas: Pearson Coefficient of Correlation, etc.

Sources of Preparation

- GeeksForGeeks
- HackerRank
- Codeforces
- LeetCode
- MIT Intro to Algo

Courses and Certification

- Courses to be focused on: OOP, DSA and DBS.
- Focus a lot on probability and DP.

Other Relevant Information

- GS holds variable number of interview rounds for each candidate. Some had even 5 while some had only 2. Do brush up Prob & Stats really well. Performing well in coding round does help in further rounds though they say that it is just qualifying. If you asked to prove a probability question, just don't say NO - at least try proving it, make a diagram and explain your thought process, the interviewer will help you at every step and take you to the final solution.
- GS is famous for asking puzzle-based questions. Most of the candidates were asked though I wasn't asked any. Quant Puzzles: (http://puzzles.nigelcoldwell.co.uk/) If you solve all of them, there would be hardly any difficulty in this section, since they rarely go beyond these.

Sector: IT
Name: *Amisha Kothari(2017A3PS0194P)*

Company: Microsoft

Profile: Software Engineering Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test and Technical Interview
- CGPA cutoff: 7
- Online Test: Directly shortlisted for interview (codess candidate). Codess included several assignments to be submitted in a specific timeline and mock interview was conducted.
- Interview Round:
  Technical Interview: The preparation of technical rounds majorly involved revision of standard algorithms, the practice of company-specific questions from GFG and reading interview experiences of the company from GFG.

    - Round 1: It mainly involved questions on a singly linked list, circular linked list and their various modification to analyze space and time complexity in different cases. Further, the interview involved discussion on projects mentioned in the resume asking their way of implementation and uses. In the end, a few questions on hobbies were asked.

    - Round 2: It included a complex question based on trees. The interviewer asked to keep discovering new solutions based on memory and time constraints. Also, a brief discussion about various new products of the company happened in the end.

Sources of Preparation

- GeeksForGeeks
- InterviewBit
- Book: Data Structures and Algorithms made easy by Narasimha Karumanchi

Courses and Certification

- Courses to be focused on: OOP and DSA

Other Relevant Information

- The main target of preparation should be to get a good hold over data structures and algorithms. Basic knowledge of the principles of OOP is fine. Try to code more and more questions on any platform. This increases your speed and compatibility with library functions. For the technical interview part, I'll suggest to keep your resume precise and prepare all the points well in advance. Be confident while replying and keep discussing your idea/approach of the problem with the interviewer.

- Don't try to study new content once the internship season starts. Make a note of important questions and algorithms for their quick revision. Be attentive in company orientations and read about the company a bit before going to the interview. Prepare a few questions from your side to ask the interviewer in end, if he asks for.
- Interviewer looks more at your way of approaching the question and thinking ability rather than code syntax.

Sector: IT
Name: *Sanjeev Singla(2017A7PS0152P)*

Company: Walmart Labs

Profile: Software Engineering Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test and HR Interview.
- CGPA cutoff: 7
- Online Test: 1.5 Hour, 2 sub-parts - Coding (complete the function/code) and MCQ quantitative type questions.
  Both questions were on arrays. To pass the round, you need to do both the coding questions correctly and almost all the MCQs correctly.
- Interview Round:
  Technical Interview: I did revise OOP and read some HR type questions, but there was no technical round.
    - Round 1: Questions were fairly easy, to pass the round, you need to do both the coding questions correctly and almost all the MCQs correctly.

  HR Interview: Asked about PORs - what was the work and how do you handle conflicts. Apart from normal HR questions, he did ask some puzzles which were subjective in nature.

Sources of Preparation

- BITS course work.

Courses and Certification

- Courses to be focused on: DSA and Computer Programming.

Other Relevant Information

- Be calm, PU does give you a lot of opportunities, so just do your best. Learn from every test and do have some familiarity with STL (or alternatives) regardless of which language you prefer.
- Round1 - Almost every question is fairly doable, so you have to make sure to attempt all questions correctly, One MCQ wrong, and your chances will fall exponentially. Round2 - HR did ask about PORs and asked questions related to work and people management, So POR helps.

Sector: IT
Name: *Aniket Gaikwad(2016B4A30548P)*

Company: Walmart Labs

Profile: Software Engineering Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview and HR Interview.
- CGPA cutoff: 7
- Online Test: MCQ+ 1 coding question. 30 MCQ's of various topics in CS (OS, DSA, OOP, DBMS) and logical reasoning+1 coding question.
- Interview Round:
  Technical Interview: Read up some coding questions on GFG and some HR questions.
  Technical and HR Interview: Lasted for 40 minutes. Various scenarios were given and your reaction/solution to the scenario was asked. A bit was asked about my internship at a government organization.

Sources of Preparation

- GeeksForGeeks
- LeetCode

Courses and Certification

- Courses to be focused on: OOP

Other Relevant Information

- Stay calm and try to answer their questions completely.
- CGPA matters even if everybody tells it doesn't. Try to maintain a decent CGPA.
- Brush up on basic concepts and read up on some HR questions as they are asked a lot.

Sector: IT
Name: *Khushboo Kumari (2017A7PS0012P)*

Company: Adobe

Profile: Product Intern

Recruitment Procedure

- CGPA Cutoff: 7
- Online Test: MCQ, Coding question
    - Maths and Graph theory based MCQ. Coding Question: variation of Coin change problem, I think second question was print numbers in spiral form.
- Preparation for Technical Round: Revisited previous year coding question of Adobe
- Technical Round:
    - Be prepared for Project based question. OOP and DSA concept-based question.
    - Coding question - Search in rotated sorted array, Merge sort, Quick sort.
- For online test - try to solve one or two eigen value and vector problem, Solve probability question too. Usually Company asks coding question but I think Adobe had less weightage for coding question in online round. Telephonic or Video call Interview - Apart from STL usage know basics of DSA like sorting algo etc.

Sources of Preparation

- InterviewBit, GeeksForGeeks, Codeforces
- Important Courses: OOP, OS, DSA, DBS

Other Relevant Information

Focus on time and space complexity of code that you write. Solve previous year company question from Geeksforgeeks and Interviewbit.

Sector: IT
Name: *Aakash Bist (2016B5A80675P)*

Company: Adobe

Profile: Product Intern

Recruitment Procedure

- CGPA Cutoff: 7
- Online Round: Online round was conducted on Hackerrank with 15 aptitude and general CS based MCQs along with 2 coding questions.In one coding problem only pseudo code was asked. Time duration was around 1 hr and 15mins. Since the test was easy the time taken to solve all the questions was given utmost importance.
    - MCQs were easy, only basic knowledge of computer science subjects, mostly DSA was enough. Coding problem 1: Standard coin change DP problem Coding problem 2: Print a given matrix in spiral order (only pseudo code).
- Preparation for Technical Round: I mostly referred to Adobe archives in geekforgeeks. Studying the topics and questions asked in previous company interviews gives a general idea about the company interview procedure. Company wise questions on leetcode and interview experience on leetcode discuss are resourceful too.
- Technical Round:
    - This was a telephonic round with code to be shared with the interviewer on google doc.
    - First, he asked me the difference between unordered_map and ordered map, their complexities and applications.
    - Second question was to detect a cycle in a linked list and find its start.
    - Third was to check if a given tree is a binary search tree, I suggested multiple approached and from these he liked the most where I used a preorder traversal to get the nodes and then used stack to find next greater element.
- All rounds mainly focused on DSA knowledge, complexity analysis and problem solving. Telephonic interview which was the second round was given the most weight.

Sources of Preparation

- InterviewBit, GeeksForGeeks, Codeforces, LeetCode, Cracking the coding Interview
- Important Courses: OOP, DSA, DBS

Other Relevant Information

- Frequently give online contests on codechef and codeforces and upsolve the problems after each. Leetcode virtual contests are simpler and have mostly interview based questions, giving these will help you learn problems from different topics. Do interviewbit and gfg for topic wise practice. Basic OOP and DBMS concepts are important but could be done a week or two before internship season starts. Focus mostly on DSA. Practice mock interviews with someone and try to write code in these in a whiteboard or a paper.
- Some resources for particular topics:
    - Tushar Roy Youtube : Dynamic Programming
    - Gaurav Sen Youtube: System Design
    - Byte by Byte Interview Prep
    - Irfan Baqui Youtube: whiteboard interviews
    - Abdul Bari Youtube: Basics
    - Codeforces Blogs
- Refer to gfg company archives before coding tests and interview and also the previous year internship questions and current placement season problems. Most of these get repeated.

Sector: IT
Name: *Lucky Agrawal (2019H1030017P)*

Company: Samsung Semiconductor India Research

Profile: Student Trainee

Recruitment Procedure

- CGPA Cutoff: 7.5
- Company was mainly focusing on the basic knowledge of the core subjects like architecture, os and in programming language they were only concerned about C Language
- Online Round: No MCQ, no aptitude straight forward there was a problem related to dynamic programming, which is to be solved in 3hours.
    - It was related to finding cycle in a graph.
- Preparation for Technical Round: Best was to practice for competitive programming online
- Technical Round:
    - It was a technical round which last for 45 mins face to face conducted by one of their technical person, he was kind by his nature. I have listed down few question that were asked to me:
        - How interrupt is handle in computer
        - What is virtual paging, how TLB is useful
        - How to change a static variable of C program from another C program
- HR Round: This was an HR round where she asked few question related to my expectation from the company and what company expect from us.

Sources of Preparation

- InterviewBit, CodeChef, LeetCode
- Important Courses: OS, DSA, Computer Architecture

Other Relevant Information

- Make your basic concepts of basic subjects like OS, Computer Architecture, DSA
- Be prepared with CP
- The interviewer is not going to harm you stay calm and be friendly with them.

Sector: **IT**
Name: *Kunal Mohta (2017A7PS0148P)*

Company: Samsung R&D Bengaluru

Profile: Student Trainee (Research)

Recruitment Procedure

- DSA was the main focus in all rounds of recruitment process. Major research work is in ML, so interviewer can be impressed by work/knowledge related to that. CG can be handy here (because research).
- CGPA Cutoff: 7.5
- Online Round: 3 coding questions (one of 3 marks, other two of 5 marks) in 75 minutes - different sets for everyone. Only C, C++, Java, C# allowed. External DS libraries (like STL) not allowed - however the questions didn't require any external library.
    - Q1. Given a number in string representation, find the next larger number which is a palindrome. -> Brute force like approach passed visible testcases.
    - Q2. Given a binary search tree, find the kth largest number.
    - Q3. Given a binary tree, find the sum of all leaf nodes present at the lowest level. => All leaves you are considering should be on the same level and this level should be minimum of all other levels that have leaf nodes.
- Preparation for Technical Round: After being shortlisted there isn't really any time to learn new things. It is best to be prepared with all the concepts of DSA before internship season starts. But I did go through the archives of questions generally asked by Samsung - this can be found on GeeksForGeeks. Samsung doesn't allow the use of any helper libraries and prefers C/C++. So, best be comfortable with that.
- Technical Round 1:
    - This is a Group fly round - Called in groups of 5 and were given the same question to solve individually. Quesiont asked to my group:- Design a text editor with following functions insert(char str[], int len) - insert given string at the point where cursor is delete(int len) - delete in the forward direction from the cursor's position for the given length move(int pos) - moving the cursor to the given position Not allowed to use STL methods; char arrays to be used for strings; pseudo code was fine. Time complexity given more preference than space complexity.
    - Expected implementation - Using linked lists Main focus was on the approach, even if you write the wrong approach but explain an optimized one, you will get through.
    - CG became an important factor here. If you have a very good CG but perform mediocre here, you still can get through to the second round.

  - Different groups were asked completely different questions. Some of the groups had only DP questions (typical ones), some on heaps. In general, try to be comfortable with all typical DP questions - you can expect them anytime, for any company.
- Technical Round 2: Difficulty of this round depends on your performance in the group fly plus you CG. I did well in my Round 1 and the interviewer in that round seemed impressed by my resume/CG, so this round was a breeze. I was asked to explain my PS1 project, which was the only thing related to ML on my resume.

Sources of Preparation:

- InterviewBit, GeeksForGeeks, LeetCode
- Important Courses: DSA, NNFL/ML might also help

Other Relevant Information:

- Use your Summer Vacations wisely. Try taking an easy PS1 so that you can focus on interview preparation. Competitive programming is a must (and inevitable). And only way to be good enough with it is practice. The faster you get comfortable with question solving, more time you will get to prepare/revise OOP & DBMS concepts & questions.
- MYTHS:
  - "CGPA doesn't matter" => It doesn't if you are pro enough to beat everyone sitting with you in the online tests. 7.5 is bare minimum anyways, else you won't be sitting at all.
  - "OOP/DBMS is not that important" => Many companies had questions on these in technical rounds. Some companies (like AppDynamics, Arcesium) even had questions on Java in the online test. "Dynamic programming will probably not be asked for internship" => For day 0 companies, DP is as common as any other topic. For day 1+ too DP is highly expected at least once during the whole process.

Sector: IT
Name: *Anirudh Srinivasan Chakravarthy (2017A7PS1195P)*

Company: Samsung R&D Institute, Bangalore

Profile: ML Intern

Recruitment Procedure

- The company was more focussed on DSA based questions. Two people are shortlisted per group of 6-8, so matching their expectations is critical.
- CGPA Cutoff: 7
- Online Round: 2 hours, 3 coding questions, Complete code based
  - DSA type questions
- Technical Round 1: Fairly challenging coding questions. There were 3 in total, I could solve only one. However, shortlist doesn't give much weightage to number of questions solved (according to me) as compared to your CGPA and other profile. I believe this is true because I barely one question and a few more test cases here and there but was still shortlisted.
- Technical Round 2: They asked me a relatively straightforward trie question (inserting multiple strings into a dictionary), and needed me to write the code for multiple functions towards that. Basic DSA course knowledge was sufficient for this, and once I completed, they asked me to write a DFS-like function for searching for a string, and return the first 5 matching strings. A brief idea of the data structures should be sufficient to carry you through this round.
  - I breezed past the interview round due to a decent amount of ML experience. They were looking for someone with such a background, and a short description of 3-4 of my projects in Computer Vision was enough to convince them. I was done within 5-10 minutes. However, it may not be so easy for everyone, as a few friends of mine with lesser experience faced some more DSA questions and were interviewed for 30-45 minutes.

Sources of Preparation

- Didn’t use anything
- Important Courses: DSA

Other Relevant Information

- I feel it's important to actually take up some projects and do work which interests you. A lot of focus is put towards competitive coding and the related platforms (for good reason), and a lot of people will probably talk about this in great detail. But I feel not many applicants have done something additional which stands out in your profile. There are lot of opportunities on campus, you just need to find them

and make good use. While I do admit it's important to have a fairly strong coding experience (based on your orientation - placement vs higher studies), do try out something extra and try to find that field which actually excites you. I may not have gotten shortlisted for other companies due to the relative lack of coding experience, but I'd like to believe that a good blend of coding experience with extracurricular projects can take you places (even if you aren't decided about your future yet).

- In addition, not many people actually look into the profiles of the company. While I do agree that working at a highly prestigious company carries a good weightage, you also need to ask yourself whether you really want to do the work they're looking for. Personally, I cannot work in a Software Development profile. You could see this internship as a way to get exposure to that work stream, and make a career decision on whether you want to work in that domain or not, but I feel you should give some consideration to the job profiles before making a decision.
- Speak to people who've been through the rounds before you on the interview day, it'll give you an idea on the type of questions and help prepare you for it. Sometimes, they repeat questions over different rounds, so if you're lucky that'll work out for you.

Sector: IT
Name: *Komal Vasudeva (2017A7PS0103P)*

Company: Oracle

Profile: Member of Technical Staff

Recruitment Procedure

- CGPA Cutoff: 7
- Given the testing criteria, it can be inferred that the company focuses more on aptitude than on skills. They expect you to have a basic knowledge of DSA and OOP. No online coding test was held.
- Online Test: Online round had different sections, such as English, Mental Ability, Reasoning, Technical rounds (on DSA, DBS and OOP). Format- MCQs . Each section had some time alloted to it, and time didn't pass on to other sections ,i.e., if you finish one section in , say 8 out of 10 alloted minutes, you'll still get 10 minutes for the next section, not 12.
- Preparation for Technical Round: GeeksForGeeks company-wise archives are very useful. Questions are usually repeated.
- Technical Round 1:
    - Round 1 was technical interview. I was asked to write a code for performing deletions in a doubly-linked list. Then, the interviewer asked about the important properties of OOP. Following that, I was asked about non-relational DBMS. Also, I was required to brief the interviewer about my PS-1 project.
- Technical Round 2: Round 2 was technical-cum-HR. It was in continuation with the previous round. Similar questions were asked. Additionally, I was asked about the co-curricals that I had written on my resumé.
    - In HR round, I was asked about my hobbies. My answer was - reading and quizzing. He asked me some current affairs questions. I had mentioned iBOSM volleyball in my resumé, so I was asked about the same.

Sources of Preparation

- InterviewBit, GeeksForGeeks, HackerRank, CodeChef
- Important Courses: OOP, DSA, DBS

Other Relevant Information

- Practise as much as you can. You can't just go and hit the jackpot. Most of the questions have a standard procedure, so you need to get that exposure. Even if you are stuck on a question while practising, view its solutions.
- If you are asked something about a subject that hasn't been done, feel free to inform the interviewer

about the same. Exude confidence, but don't fake it.

- MYTH: That it's very easy to get. The truth is - it is not. Rejections are a part and parcel of it. Good amount of preparation is required, still success is not guaranteed.

Sector: IT
Name: *Mayank Jasoria (2016B1A70703P)*

Company: Samsung R&D, Bangalore

Profile: Summer Intern

Recruitment Procedure

- CGPA Cutoff: 7.5
- The three stages (coding round, group fly, and interview) tested knowledge of different areas. Overall, the initial rounds focused more on DSA, while the other rounds shifted towards OOP. The later stages gave the impression that OOP was a major point of focus. Also, some knowledge of OS (scheduling and inter-process communication) is a plus.
- Online Round: The online round had exactly three coding problems, conducted on co-cubes. The coding round was focused more on DSA concepts involving strings and binary trees. Everyone was given different problems.
    - 1) Some simple string manipulation problem
    - 2) Connect each level of a given binary tree in the form of a linked list without breaking any existing link, given that the structure of each node of a given binary tree contains an additional 'next' pointer.
    - 3) Given two binary trees, write a function to check if they are equal or not. Two binary trees are considered equal if they are structurally identical and the nodes have the same value.
    - 4) [some candidates were asked this question] Connect all the leaf nodes of a given binary tree into a linked list, without breaking any other links. Use the 'right' pointer of the leaves to make the list, while leaving all 'left' pointers as NULL.
- Preparation for Technical Round: I took reference for the nature of these rounds from the Interview Chronicles, as well as archives available on GeeksForGeeks. I followed these for all companies for which I was shortlisted after the respective coding rounds. Preparation usually involved discussions, and sometimes mock interviews with friends, based on these references. Along with this, I continued to practice my coding skills.

- Technical Round 1:
    - The group fly round involved a design problem where the concepts of DSA were to be applied (writing legible pseudo-code on paper) as the base of the solution. Here, elements of code modularity (breaking the overall problem into simpler, repeatable sub-tasks) and applying some algorithm for each such
      subtask was what was judged, as well as the overall design of the solution in terms of time and memory constraints. It was not required, but OOP concepts could optionally be used for better construction of the design. Finally, we were expected to explain our solution and answer any

additional questions, which were mostly not related to the problem. These varied from coursework to algorithms to logical aptitude.

- Technical Round 2:
  - The final interview round (for me) involved a few questions on my skills, then two questions from OS regarding inter-process communication techniques, then a few basic OOP concepts, and finally a design problem involving the use of one or more OOP design patterns and multi-threading.
  - The final problem was related to ensuring that an application which performs multiple simultaneous network I/O operations should be responsive to user interaction (not blocked) and handle each network response in a synchronized manner.
  - My solution was to perform all user interactions on a foreground thread, and shift all network I/Os to a separate background threads. This way, user interaction would never freeze. Next, each background thread could perform a blocking operation, which would, on receiving the response, attempt to perform its operation by acquiring a lock for an object. The foreground thread would be notified of new data using an observer design pattern, so that whenever a network thread completes its task, the foreground thread would be notified to take necessary action, like displaying results on the screen.
  - This round did not involve any DSA for me, however, it may have been there for other candidates.

Sources of Preparation

- InterviewBit, GeeksForGeeks
- Important Courses: OOP, DSA, OS, DBS, Computer Networks

Other Relevant Information

- For coding rounds, prepare using InterviewBit (now Scaler Academy I think), and practice all problems in the Internship Chronicles (if available) and GeeksForGeeks for the respective companies, as the problems for coding rounds are usually of a similar nature as the past problems. Be good with DSA at the coding level, not just theoretical foundations, and practice enough problems to be able to quickly figure out the technique to approach a problem - specially problems related to dynamic programming and graph algorithms (I was not tested on these at Samsung, but other companies this was a major point of focus). Revise the basic concepts of OOP thoroughly - mostly the basic principles of OOP (abstraction, encapsulation, inheritance, and polymorphism, along with examples) and design patterns (you should be able to identify the suitable design pattern for a given problem). The other concepts are usually part of MCQs of various companies.
- Nothing special, just regularly practicing problems and engaging in discussions with friends who have an aptitude for these things. The discussions are also very important - practice helps to learn some techniques on your own, yes, but the discussions help to reveal many other techniques and thought

processes in a short time. These help to relax, and revise concepts very quickly, also learn new tips very often.

- MYTH: If your CGPA is high, then other factors don't matter much. THIS IS NOT TRUE!

Sector: IT
Name: *Bilwasiva Basu Mallick (2015HS030020P)*

Company: CISCO

Profile: Software Development Intern

Recruitment Procedure

- CGPA Cutoff:7
- DSA (emphasis on DP in online coding round), OS, OOP, CN. Computer Networks is not much important for BE students since they do it 1 sem later. All students whose all test cases passed even using Brute Force were also selected in next round.
- Online Round: 1 DP question in Hacker Rank and 25 MCQs on Aptitude and Combinatorics within a timeframe of 60 minutes.
    - DP question was "Length of longest Subsequence with unique characters".
- Preparation for Technical Round: I had a week's time after the online coding round. However, Shortlist came only on the eve of interview day. Focused solely on all possible DSA questions which were asked in Cisco from GFG archives.
- Technical Round 1:
    - Since I took a Vertical Transfer from BE in EEE to ME in CS he asked me Basic conceptual questions on OOP (anonymous class, overriding examples, interface and abstract class), CN (TCP & UDP difference, ARP, 7 layers of OSI), OS (Mutex, semaphore, Round Robin example). Then he started with DSA 1. Find middle element of linked list (2 pointer method) 2. Stack using 2 Qs, Q using 2 stacks (pseudocode) 3. Linked list reversal (full code) 4. Balanced trees concept (no coding) 5. Complexity of Tower of Hanoi problem. This round went on for 55 minutes.
- Technical Round 2:
    - In this round interviewer just focused on projects and internships mentioned in resume. After some follow-up questions from resume, he asked me to explain my BE Thesis. Also asked me some puzzles like "4 men crossing a bridge" and "Opening 1000 doors". It ended within 20 minutes. Always be ready to ask some company related queries to the interviewer at the end. These add some brownie points.
- HR Round: In HR round, interviewer asked me some concepts on Static Timing Analysis & Hold Time Violation, since my BE was in EEE. After that, being a Bitsian himself, he was asking me about the campus life, food, fests and all.

Sources of Preparation

- InterviewBit, GeeksForGeeks, HackerRank, LeetCode
- Important Courses: OOP, OS, DSA, Computer Networks

Other Relevant Information

- DSA should be the primary focus. Practice array, Linked List, Stacks, Queues, Trees and DP questions from interview bit and CISCO archives from gfg. Be prepared to do whiteboard coding in technical rounds. Think loud while discussing the solutions with interviewers. Even when you are stuck up, keep your calm. You can crack it. All the very best.
- Be positive and confident. Have faith in you to solve any challenge.
- CGPA is never a deciding factor once it is above 7. Maybe it is used to break a tie later into the stages.

Sector: IT
Name: *Yash Vijay (2017A7PS0072P)*

Company: Microsoft

Profile: Software Engineering Intern

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview Rounds and Personal Interview
- CGPA cutoff: 7.5
- Online Test: The test had 4 sections - 3 moderately easy coding questions. Use of libraries was not allowed. Questions were different for everyone in the online round. 3 coding questions were asked. Then there was a written round, in which a question on graph connectivity in a 0-1 matrix was asked: https://www.geeksforgeeks.org/find-number-of-islands/
- Interview Round:
    - Technical Interview: The preparation was common for almost all companies. I used Interviewbit to practice during my PS 1. GFG and a few other sites have interview experience testimonials for a lot of companies. Make sure you consult them before the online round as well as the interviews.

    - Round 1: From what I remember, the test was on mettl. Use of libraries was not allowed. Questions were different for everyone. The questions were not that difficult, as they took into account that we could not use functions like sort and in-built data structures.

    - Round 2: From what I remember, the test was on mettl. Use of libraries was not allowed. Questions were different for everyone. The questions were not that difficult, as they took into account that we could not use functions like sort and in-built data structures.

- Personal Interview: Almost exclusively, the questions were from DSA. In the interview, the interviewer asked basic questions from OOP and DBS, but did not push too much after I said I was not very confident about these subjects. There were two personal interviews. The first one went on for about 45 minutes and I was asked 3-4 questions on binary search, strings and trees. In the second round only one question was asked, something about substrings. There was no HR round.
- No HR Interview

Sources of Preparation

- InterviewBit, GeeksForGeeeks.

Courses and Certification

- OOP, DSA, DBS

Other Relevant Information

DSA is extremely important. Practice as many questions on interview bit as you can during the summers. A few companies also ask questions from OOP and DBS. So a little knowledge about those might also help. Also spend a little time and prepare to code simple problems without standard libraries, handling pointers and arrays. I would suggest using C++ due to its similarity with C and availability of solutions for common problems on the internet.
PORs generally do not help a lot for IT internships. CGPA does matter. If you can't even qualify for the online test, your coding skills won't help you much. Look up gfg archives of the company before going in for the test/interviews.

Sector: IT
Name: *Rohit Rajhans (2017A7PS0105P)*

Company: Cisco

Profile: Software Engineering Intern

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview Rounds and HR round.
- CGPA cutoff: 7
- Online Test: The test had 4 sections - The duration of the online round was 90 minutes. It comprised of Aptitude, Basic Computer Science and some EEE related questions in an MCQ format. Also, it had a single coding question which was pretty easy.
- Interview Round:
    - Technical Interview: I prepared mainly by revising various concepts in OOP and DBS. Some of these were also asked in the interview. I went through some of the past interview questions of the company that is available on GeeksForGeeks

    - Round 1: There was a single coding question, where I had to write the code to reverse a linked list in C. After that, several questions about OOP were asked, for example, the meaning of the static keyword. A long discussion on projects followed, where I was asked about the client side and server side behaviour of the application.

    - Round 2: This round was sort of a stress test. Several situations were presented and the interviewer asked me how I would respond to these situations. An example of one of the situations presented, you have to choose between delivering a presentation on a product that you and your friend have worked on for a long time or helping the same friend who is currently bedridden and has no one around to help him.

- HR Interview: This was the third round after the technical round.

Sources of Preparation

- InterviewBit, GeeksForGeeeks. LeetCode.

Courses and Certification

- OOP, DSA, DBS

Other Relevant Information

The recruitment procedure is focused more on having a sound base in the DSA, DBS and OOP. The coding questions were pretty easy but a stronghold on basic concepts was expected in both the interview and the coding round. Start early and consistently practice coding questions. Focus more on topics like Dynamic Programming and Graphs. Also, keep your OOP and DBS basics strong. If you can't solve the coding question, hard code the trivial cases.

Sector: IT
Name: *Kumar Deovrata (2016B1A7PS0939P)*

Company: Microsoft

Profile: Software Engineering Intern

Recruitment Procedure

- The recruitment procedure: Online Test, Group Fly round, 3 rounds of interview.
- CGPA cutoff: 7.5
- Online Test: The test had 4 sections - 3 coding questions. Although the weightage of each question isn't mentioned but they have different weightage. The coding round will be on mettl so you won't be allowed to use STL. I solved two questions fully and one partially. One question was on greedy, one was on dynamic programming and one was ad-hoc.
- Interview Round:
    - Technical Interview: Once shortlisted see the past interview experiences of the candidates of that company on GFG or any other online platform.Try to have a thorough understanding of the projects mentioned by you in your resume.

    - Round 1: My first interview round was the longest among all 3 rounds. The interviewer asked me tell me something about yourself so I started off by telling about my name, branch etc. Then I told him about my projects. So then we had a discussion about my projects. Once all this was over he started asking me a bunch of questions on DSA. He also asked me to write pseudo code for two of them. I remember one question, it was how to find running median (to be solved using heaps)

    - Round 2: This round was not very long.I was given a scenario and I was asked which data structure is most suitable for the scenario and then he asked to write a pseudo code for that.

- No HR Interview

Sources of Preparation

- InterviewBit, GeeksForGeeeks. HackerRank, LeetCode.

Courses and Certification

- OOP, DSA, DBS

Other Relevant Information

Try to solve as many questions as you can from interviewBit and GeeksForGeeks.Coding questions need practice so it's better if you start early.Concepts like OOP,DBMS,puzzles etc. could be done during the ending phase so try to focus on solving as many coding question as you can.Also don't try to target a particular company ,try your best and don't worry about which company will hire you. Stay focused and sleep well because the internship season could be very hectic and tiring.It's necessary that you are at your best through out the season.

That the atmosphere in the interview room in very intense.The interviewers would be very helpful and friendly(especially of IT sector).It would be one of the best conversations you will have in your lifetime.They would love to interact with you.All stress and anxiety happens only outside the interview room not inside.

Sector: IT
Name: *Sahil Dubey (2017A7PS0096P)*

Company: Standard Chartered GBS

Profile: Software Development

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview Round.
- CGPA cutoff: 7
- Online Test: Aptitude rounds only. Related to mental ability and logical aptitude. There are around 3-4 rounds with each round having a specific time limit and being an elimination round. Make sure you have speed and answer correctly in the first try itself. No second chances.
- Interview Round:
    - Technical Interview: Revise the concepts of OOP, DBMS and DSA. Be prepared with some information about the company and its workings.
    - Round 1: The interviewer grilled me for about 45-50 mins with question from OOP, DSA and DBMS. Any gaps in my understanding were picked up by the interviewer. A couple of easy coding questions followed by a question on real- life application of coding (just the outline of how and what the structure and flow of code would be). This was followed by a couple of general HR questions.
    - Round 2: There was no round 2 for me as the previous round had lasted quite long and there were some issues regarding time constraints.

- No HR Interview

Sources of Preparation

- InterviewBit, GeeksForGeeeks.

Courses and Certification

- OOP, DSA, DBS

Other Relevant Information

Have a strong grasp on the concepts of OOP, DBMS and DSA, along with coding skills and lots of practice, CG matters for many of the companies.

Sector: IT
Name: *G Adityan (2016B1A70929P)*

Company: Oracle

Profile: Server Technology Group

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview and HR Interview
- CGPA cutoff: 7
- Online Test: MCQ, Short Answer, Complete Code
- Interview Round:
    - Round 1: Asked to write code on paper for the given questions
    - Round 2: Purely Resume Based - Projects, Internships etc
- HR Interview: Non-Technical

Sources of Preparation

- InterviewBit, GeeksForGeeeks. LeetCode

Courses and Certification

- OOP, DSA, DBS

Other Relevant Information

Lots of code and little bit of luck should be enough. PS-1 project was important for me.

Sector: IT
Name: *Abhishek Gupta (2016B3A70576P)*

Company: Microsoft-IDC

Profile: Software Engineering Intern

Recruitment Procedure

- The recruitment procedure: Online Test, Group Fly Round, Technical Interview Rounds.
- CGPA cutoff: 7.5
- Online Test: The test had 4 sections - There were 3 coding questions in the online round. Every candidate gets a different set of questions from a large problem bank. All the 3 questions were of "Complete the function" type. Those who solved all 3 questions were shortlisted for the next round. Q1. You are given n sticks with differing lengths. You can either increase the length of the stick or decrease it. An array of costs was also provided where the ith entry signified the cost for increasing or decreasing the length of the ith stick by 1 unit. You had to make all the sticks of equal length and ensure minimum cost was incurred while doing this. Rest 2 questions were easy.
- Microsoft has group fly round too after the online test round. They make groups of 6-7 candidates and assign a mentor to them and ask the same question from all the candidates. It is better if you explain the answer to your mentor and interact with your mentor.
- Interview Round:
    - Technical Interview: Just revised basic OOP questions from https://www.javatpoint.com/corejava-interview-questions and revisited previously asked questions from https://www.geeksforgeeks.org/must-coding-questions-company-wise/#microsoft.

    - Round 1: Q1. https://www.geeksforgeeks.org/boggle-find-possible-words-board-characters/ He started with this question directly. No introduction - Nothing! I gave him around 3 solutions to this problem with a better complexity. He kept on asking for a more optimal solution. At last, he satisfied with the most optimal solution and asked me to write full code on paper. Q2. A simple Binary tree question and that too on paper. Further, he asked me to write test cases for the same and make a dry on any of the test cases. The interviewer helped me a lot whenever I stuck at some point. Then, in the end, he said that he is done with the interview and do I have any questions for him.

    - Round 2: The interview started with an introduction and then he shifted to projects section in resume. He was interested in one of the projects mentioned in the resume. I explained the project in great detail and there was some cross-questioning too. He asked me one coding question -> https://www.geeksforgeeks.org/print-level-order-traversal-line-line/ and asked me

to keep on explaining while writing code on paper. And that's all and no more questions!

- No further round for me but some went through round 3 too.

- No HR Interview

Sources of Preparation

- InterviewBit, GeeksForGeeeks.

Courses and Certification

- OOP, DSA, DBS

Other Relevant Information

1. Read as many as possible interview experiences and do questions from the company-wise section from GFG. It helps a lot means seriously their whole question bank is available on GFG :)
2. Never outwit your interviewer.
3. Read in detail about your projects that you write on your resume. If you are not confident about your project, just don't write it on your resume.
4. Most importantly, keep yourself full of energy on the interview day because the process is very tiring. I had 7 interviews on the same day and Microsoft 2nd round was the last one. So, you must have the energy to keep smiling and solve questions.
5. Always ask 1-2 questions from the interviewer whenever he asks you to do so.

Doing company wise section of GFG helps a lot in interviews (may not be in online rounds).

Sector: IT
Name: *Hariharan (2017A7PS0134P)*

Company: Dunzo

Profile: Software Engineering Intern

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview Rounds and HR Interview
- CGPA cutoff: 7
- Online Test: Technical, standard coding round with 3 questions. Q1 is easy, Q2 is okay, and Q3 is hard. Q1 was standard max heap question, something of the sort of replacing the maximum element in a collection by two new elements of half value. Q2 don't remember. Q3 was a difficult DP question involving number theory.
- Interview Round:
    - Technical Interview: I went through the definitions and implementations of standard data structures and algorithms, and brushed up on C++ STL. STL did come in handy for the technical round as most rounds required the frequent use of STL.

    - Round 1: Round 1 was a written code round. All candidates were given the same problem, and given 20 or so minutes to solve it. Question was DFS with additional string manipulation. They had asked us to write out the whole working code.

    - Round 2: Round 2 involved some difficult questions on data structures and dynamic programming.

    - Round 3: The last round was with the Director of Engineering himself, and it was much less pressure than the rest. Standard behavioural questions like "Name one time you faced a problem with a deadline/teammate, and tell me what you did to tackle it". He also gave me a list of problem statements that were going on at Dunzo, and asked me to pick one of them and tell him my approach to it no matter how top-level it is.

- HR Interview: HR Round was very short, just a congratulatory session asking for a few details.

Sources of Preparation

- InterviewBit, GeeksForGeeeks. LeetCode

Courses and Certification

- OOP, DSA.

Other Relevant Information

Dunzo's interview questions were of high difficulty. Requires complex understanding of the use of data structures. The interviews heavily emphasised questions on data structures and dynamic programming. Attitude in interviews matter a lot. Interviews aren't held just to see if you can solve their problems. They also serve as means to gauge communication capability, general demeanor, and thought process. You should be able to display these.

The summer before your internship semester is extremely important. Do not underestimate the competition, and prepare as hard as you can. Make sure you solve enough problems from each genre of problems, so that you can think for similar problems quickly. Coding rounds and technical interviews are high pressure situations and you can't go by the feeling that if you can solve a problem in your room you'll be able to do it in the test as well. Prepare well, and good luck to all of you!

Sector: IT
Name: *Sreetam Parida (2019H1120051P)*

Company: ServiceNow

Profile: Software Engineering Intern

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview Rounds and Personal Interview
- CGPA cutoff: 7
- Online Test: This was an online round, where it was divided into 2 parts further. The first part was an MCQ test containing logical and technical questions. The second part was a coding round, where we had 1 question. MCQs were based on permutation and combination, regular expressions, basics of Oops, DBMS, OS and algorithms. The coding problem asked was a variation of following problem: https://www.geeksforgeeks.org/next-smaller-element/
- Interview Round:
    - Technical Interview: There were 2 rounds for me but some went through a third round as well.
    - Round 1: One question was asked on Permutation and Combination based on a matrix. Another was to write a code to find the shortest path from one point of a matrix to another through obstacles present in the matrix.
    - Round 2: Three questions were asked 1. Delete a node from a linked list using a single pointer. 2. Find the nth node from the end of a linked list without coming backwards. 3. Find the intersection between two sets of numbers.
- HR Interview: Normal questions about my college and branch.

Sources of Preparation

- InterviewBit, GeeksForGeeeks. LeetCode.

Courses and Certification

- OOP, OS, DSA

Other Relevant Information

DSA is extremely important. Approach the question with increments don't rush into the answer even if you think you know it.

Sector: IT

Name: *Parth Samnani (2017A3PS0298P)*

Company: Samsung Research Institute

Profile: Software Engineer

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview Rounds and Personal Interview
- CGPA cutoff: 7
- Online Test: Group fly, interviews. Matrices based and graphs based.
- Interview Round:
    - Technical Interview: Was on the same day, just stayed calm.
    - Round 1: Group fly. Different questions to each group. Code on paper.
    - Round 2: Technical interview. Grilled on choice of topics
- HR Interview: Simple and smooth. 10 minutes long, very simple questions asked.

Sources of Preparation

- InterviewBit, GeeksForGeeeks.

Courses and Certification

- OOP, DSA.

Other Relevant Information

Stay calm have presence of mind.

Sector: IT
Name: *Yashdeep Gupta (2017A7PS0114P)*

Company: Sprinklr

Profile: Software Developer

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Interview Rounds and HR Interview
- CGPA cutoff: 7
- Online Test: Complete Code.
- Interview Round: Interview question: 100 husbands and 100 wives, the wife knows which husbands are cheating except their owns. If a wife knows his husband is cheating, she will kill her husband that night. One day the mayor announces that some husbands are cheating. If you know 15 husbands are cheating(the wives do not know the number of cheating husbands ,they only know that their husbands are cheating), how many days will it take for all husbands to die?
    - Technical Interview: Solved a whole lot of coding problem sets on GeeksForGeeks and also past year problems for the famous tech companies.
    - Round 1: Around 3 coding questions.
    - Round 2: 3 questions, 2 based on DSA and 1 puzzle
- HR Interview: Brief interview on what my interests are and if I am interested in a full-time employment with the company.

Sources of Preparation

- GeeksForGeeeks. LeetCode

Courses and Certification

- OOP, DSA, DBS

Other Relevant Information

Be prepared to answer SQL questions or questions based on OOP concepts (difference between abstraction and polymorphism). Know all data structures along with time complexities. (for example, Doubly linked list: time complexity of insert ,delete sort).

Sector: IT
Name: *Samanvay Lamba (2017A7PS0022P)*

Company: Samsung (Noida)

Profile: Software Development Intern

Recruitment Procedure

- The Recruitment Procedure: Resume Shortlisting, Technical Interview, HR Interview
- CGPA cutoff: 7
- Online Test: MCQs mostly on basic algorithms. Questions on sorting algorithm, can be easily found on geeksforgeeks pages for every algo.
- Interview Round:
    - Technical Interview: They were on the same day, went through geeksforgeeks archives for Samsung.
    - Round 1: Very Easy questions on Digital Design and a tricky question on pointer of pointers, a question on static variable.
    - Round 2: 2nd round was HR, he asked me some puzzles, very easy ones.
    - HR Interview: First of all he asked me to introduce myself, then asked me a puzzle related to easy trigonometry, then asked me a few gk questions as I told him I was interested in quizzes. Then he asked me about my family.

Sources of Preparation

- InterviewBit
- GeeksForGeeks

Courses and Certification

- Courses to be focused on: DSA.

Other Relevant Information

The question bank that companies use for online tests might be large but certainly isn't infinite, if you practice enough questions you'll surely get through them. Practice for coding rounds companies tend to repeat a lot of questions, InterviewBit is a great resource

The project I did on PS I was the only major project on my resume, so whenever an interviewer asked

me to walk him through my resume, that PS I project was always a talking point. I was of high importance, probably the most important thing on my resume.

Sector: IT
Name: *Jayanth Tummalapenta (2017A7PS0075P)*

Company: Walmart Labs

Profile: Data/Software Engineering

Recruitment Procedure

- The Recruitment Procedure: Resume Shortlisting, Technical Interview, HR Interview
- CGPA cutoff: 8
- Online Test: Online test had a general aptitude MCQ round, with some simple CS questions and a simple greedy coding problem.
- Interview Round:
    - No IT interview. Online test had a general aptitude MCQ round, with some simple CS questions and a simple greedy coding problem.
    - HR Interview: The HR interviewer will likely test your comfort and confidence with simple and generic questions like your introduction and strengths and weaknesses. Be sure to have answers prepared, and lead the conversation. The interviewer may give you hypotheticals where you are at conflict with your superiors, at odds with your colleagues or stuck on some work, and ask you how you'd deal with them. Try to come up with original answers that make sense. Please be calm, confident and composed.

Sources of Preparation

- InterviewBit
- GeeksForGeeks
- CodeChef
- Codeforces

Courses and Certification

- Courses to be focused on: OOP, OS, DBS, DSA.

Other Relevant Information

- Practice competitive coding as much as you possibly can. Nothing will help more than regular practice.
- Do not ignore the company presentations. Many firms ask questions about their presentations in their interviews, and expect coherent answers. Bullshitting will only lose you your job, so please keep an ear out for the salient points.

Sector: IT
Name: *Harshvardhan Agrawal (2016B4A30479P)*

Company: SSIR

Profile: Software

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview, HR Interview
- CGPA cutoff: 7.5
- Online Test: There was a single question which had to be done in 3 hours. There was also a limit on the number of submissions allowed. Not more than 5 submissions were allowed.
  Detect and print a cycle in a directed graph in lexicographical order (nodes have keys as English letters). If multiple cycles are present, print the smallest cycle. Note that there was no implementation of the graph before.
- Interview Round:
  - Technical Interview: The technical round was for around 25 minutes in which simple questions on OOP (getters and setters, access specifiers), DSA(operations on linked lists) were asked. The interviewers also checked my knowledge about the projects I had mentioned in the resume (mostly EEE oriented ones).
  - HR Interview: Future aspirations were asked. Expectations from the company were also asked.

Sources of Preparation

- InterviewBit
- GeeksForGeeks

Courses and Certification

- Courses to be focused on: OOP, DSA

Other Relevant Information

- Coding Round was based on DSA. OOP, DSA and questions related to projects in resume were asked in the technical interview in equal proportion.
- Be thorough with the basic concepts of DSA. This was one company where mugging up algorithms did not come in handy in the coding Round.
- Try to cover every type of question in the last 20 days.

Sector: IT
Name: *Mayank Jain (2017A7PS0179P)*

Company: Appdynamics

Profile: IT Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview and HR Interview.
- CGPA cutoff: 7.5
- Online Test 1.5 hrs, 2 or 3 medium difficulty coding questions, mcqs for other cs subjects.
- Interview Round:
  Technical Interview: Went through the geeks for geeks archives. Though they are very small for this particular company. General revision of second year core courses along with practice of competitive and dsa.
    - Round 1: Was asked a few simple Competitive Questions. Had to write the complete code on paper and weightage was given to even small edge cases. Had to dry run and explain the code to the interviewer. The interviewer was an ex bitsian and did not create any pressure. One of the most relaxed interviews.

    - HR Interview: This was officially called a tech round but also included HR questions. The recruitment coordinator took the round himself on an online video conference. Was asked about previous experiences, specifically Java. Talked about my Android application. Was asked some basic oop questions. The round also included simple hr questions like are you willing to relocate.

Sources of Preparation

- InterviewBit
- GeeksForGeeks
- LeetCode

Courses and Certification

- Courses to be focused on: OOP, DSA.

Other Relevant Information

- Have a strong grip on competitive. It will help you clear your coding rounds. Competitive plus dsa plus knowledge of other core cs courses is required for the technical interviews.
- Many questions are just a tweak in interviewbit questions. Do that. Be enthusiastic in giving interviews.

Sector: IT
Name: *Sreyas Ravichandran(2017A7PS0275P)*

Company: Nutanix

Profile: Member of Technical Staff

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview.
- CGPA cutoff: 8
- Online Test: Complete code
- Interview Round:
  Technical Interview: Looked at GS previous interview experiences on GeeksForGeeks.
    - Round 1: 2 questions: 1) DP 2) Heaps. Total 2hrs..
    - Round 2: Written test of half an hour. Make corrections in a piece of code. Topic - Trees.

Sources of Preparation

- InterviewBit
- GeeksForGeeks

Courses and Certification

- Courses to be focused on: OOP, DSA and OS.

Other Relevant Information

- Practice competitive programming well. Focus on clearing all test cases, instead of completing more questions. Edge cases require special attention.
- Practice questions from previous interviews.

Sector: IT
Name: *Rudraraju Sacin Varma (2019H1030014P)*

Company: Samsung R&D

Profile: Research Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test and Technical Interview
- CGPA cutoff: 7
- Online Test: It was a 1-1.5 hours test containing 3 coding questions of easy-medium difficulty (questions were randomly assigned to each participant, so depends). I don't remember the questions exactly but 2 of them were related to 1d arrays (char/int) and the 3rd one was a general DP question (I think it was similar to 0-1 knap sack).
- Interview Round:
  Technical Interview: I felt I was a bit under-prepared, so went through geeksforgeeks arrays, strings, trees and a few graph problems.
    - Round 1: This was a group fly round. groups of participants (6-10) were called into a room and were given the same question. They could ask the interviewer doubts regarding the question if they had any. participants were asked to write an executable code/syntactically correct code on a paper. Once you are done with this, you run the interviewer through your code and he asks some questions regarding the choices in algorithms/ design made. Then a few DSA based questions were asked.
    - Round 2: This was a one-to-one interview. questions were asked based on the projects and technologies included in the resume.

Sources of Preparation

- GeeksForGeeks
- InterviewBit
- LeetCode

Courses and Certification

- Courses to be focused on: OS and DSA

Other Relevant Information

- The coding round is probably having a high weightage.
- Practice DSA well, if not this company you would still have a good chance of getting into some other

product based company.

- If you are low on time and know your way around code, I would suggest you to first go through all the coding/interview questions of different companies on geeksforgeeks.

Sector: IT
Name: *Aditya Vaish(2017A3PS0379)*

Company: Citrix Systems

Profile: Software Developer Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test and Technical Interview.
- CGPA cutoff: 7
- Online Test: The online round had 3 question and the test was taken on Hackerrank , all 3 were programming questions. There were 3 questions of medium/hard difficulty on leetcode, first was a simple 2 pointer approach question similar to https://leetcode.com/problems/3sum/ on leetcode, The second one was a string manipulation question ,and the third was on DP. The DP problem was hard and had more weightage.
- Interview Round:
  Technical Interview: The interview was mainly focused on my resume followed by programming questions.
  - Round 1: There was only one Round of interview. At first some discussion was done on my resume. After that I was asked approach for this question ' https://www.geeksforgeeks.org/write-a-c-program-to-calculate-powxn/ ' he was looking just for O(log n) approach. Next he asked to reverse a linked list without using extra space and write the code on paper ' https://www.geeksforgeeks.org/reverse-a-linked-list/ '. Next he asked me find median of 2 sorted arrays. He asked the question very vaguely and wanted me ask for more information. Here also he was looking for O(log N) approach and then he asked me write code for my approach.' https://www.geeksforgeeks.org/median-two-sorted-arrays-different-sizes-ologminn-m/ '.

Sources of Preparation

- InterviewBit
- GeeksForGeeks
- CodeForces
- LeetCode

Courses and Certification

- Courses to be focused on: DSA

Other Relevant Information

- Solve as many question as you can on Leetcode/Geeksforgeeks.
- The interviewer went for each point on my resume, so be thorough with it.
- Practice to write code on paper for interviews.

Sector: IT
Name: *Deepak Chahar (2017A7PS0147P)*

Company: Samsung Research - Bangalore

Profile: Research Intern

Recruitment Procedure

- The Recruitment Procedure: Online Test, Technical Interview and HR Interview.
- CGPA cutoff: 7
- Online Test: There were 3 questions, Time period - 1.5 hrs. One of them was on LinkedList.
- Interview Round:
  Technical Interview: High weightage on problem solving in domain of backtracking , dynamic programming.
  Technical and HR Interview: Resume Discussions , then a problem on backtracking (needs to be explained using recursion tree).

Sources of Preparation

- GeeksForGeeks
- InterviewBit
- HackerRank

Courses and Certification

- Courses to be focused on: OOP, OS and DSA.

Other Relevant Information

- Focus on topics like dynamic programming, string handling, and other advanced problems

Sector: IT

Name: *Samarth Jain(2017A7PS0067P)*

Company: Uber

Profile: Software Engineering Intern

Recruitment Procedure

- The recruitment procedure: Online Test, Technical Round and HR+Technical Final Round. CGPA cut-off was 7.

- The interviews were focused on topics such as competitive programming and OOP. The coding round had a huge weightage in the selection process. Only me and another student were able to solve all the three questions in the coding round and we were both selected. They also scheduled our interviews before the other candidates.

- I believe that the performance of the coding round has a huge weightage and certainly carries over to the interview rounds.

- Online Test:
    - It had 3 Complete Coding Questions.
    - Two of them were very simple Adhoc questions. One was a basic dp question.

- Technical Round:
    - I just revised some OOP concepts to prepare for this round.

    - Round 1: This round was based purely on OOP. They asked me to code the Snake game as you might have played in those old Nokia phones. They had a separate space for writing the code as well on hackkerank. The interviewer could also see and make changes to my code in real time. He insisted that more weightage would be given to my knowledge of OOP principles and my way of writing the code (refactoring, commenting, variable names) rather than runtime complexity. The round lasted for around 45 minutes.

  - Round 2: This round focused on DSA/Competitive entirely. One of the questions was pretty easy having a straightforward binary search solution. The other was a hard DP question.

- HR+Technical Round: They asked how would I design Google Docs and some other basic DBMS questions related to this as well. This lasted around 30 minutes, then they asked some other DSA questions and about my project in PS-1. They asked about my projects extensively. The whole round lasted for around 70-75 minutes. Finally, I was asked about my expectations with the company, why I wanted to join the company and they discussed about my earlier projects and the role I played in them.

Sources of Preparation

- InterviewBit, GeeksForGeeks, CodeChef and Codeforces served useful.
- OOP and DBS were the most important courses that helped in preparation.

Other Relevant Information

- Competitive Programming is the most important factor for getting good internships/placements.
- Also performing really good in the coding test matters as it definitely carries over to the next rounds.
- Almost in all interviews you would be asked to discuss your projects for 5 minutes. The PS-1 thus gives us a good project to talk about and hence really useful if you didn't have a good project earlier.

Sector: IT

Name: *Abhinav Ramachandran(2017A7PS1176P)*

Company: Uber

Profile: Software Development Intern

Recruitment Procedure

- Recruitment Procedure: involved a preliminary Online round, Technical Rounds and a final HR interview. CGPA cut-off was 7.

- Uber was focused primarily on algorithms and competitive-programming type questions, as well as programming practices. OOP and DBS theory were asked very little, compared to other companies.

- Online round: Three programming questions based on Duration, Structure, Format Eg. Aptitude, Logical, Technical, etc. and MCQ, Short Answer, Complete Code, etc. were asked. I don't remember the exact questions, but the topics were related to array manipulation, bit manipulation, dynamic programming, and greedy choice.

- Technical Round:
    - For preparing for this round, I looked at past interviews on GeeksForGeeks, solved problems on various online platforms.

    - Round 1: Round 1 was a programming interview. I was asked to program on an online IDE, while the interview observed my code. The question was to implement certain modules of a "snake" game. The interviewer focused on coding practices i.e. modularity, commented code, consistent flow of thought, etc. He also asked a few questions about the appropriate choice of data structure and the time complexity.

    - Round 2: Round 2 was also a programming interview, but it was much more focused on data structures and algorithms. I had to design an algorithm for a problem and write code to solve it. The problem was a combination of graphs and dynamic programming, but it had multiple layers to it, and did not appear to be related to graphs at first glance.

- The interviewer was helpful, and he pointed me in the right direction when I wasn't making progress. After nearly 45 minutes, I arrived at the final solution and coded it.
- This interview was not focused too much on the actual code - instead, the interviewer tried to gauge my problem-solving, approach and thought process. He encouraged me to explain each step of my thinking.

- HR Round: The final round was a combination of a HR round and a technical interview. A few questions about ACID properties of databases and properties of priority queues (heaps) were asked in relation to a real-life example of an airport.

- After asking a few technical questions, the interviewer asked me the following: Why I wanted to join Uber? - Talk about myself in terms of interests - An instance where I was working in a group, and my groupmates were being uncooperative. How I addressed the situation.

Sources of Preparation

- InterviewBit, GeeksForGeeks, CodeChef and Codeforces served useful.

- OOP, DSA and DBS were the most important courses that helped in preparation.

- InterviewBit and GeeksForGeeks are a bare minimum. They are very helpful, and occasionally, questions will be lifted straight from these platforms. However, I strongly suggest practicing on CodeForces: -the questions are much more interesting than IB/GFG -the rating system will keep you motivated to improve and practice -if you do a fair bit of practice for a few months, you'll be confident enough to pass the coding round for every single company.

Other Relevant Information

- PS-1 was mostly used as a conversation starter - "Tell me about your past internship". I don't think it played too large a role.

- Priority Queues and Prefix Arrays were frequently asked by many companies. ACID properties of databases, and runtime polymorphism in JAVA (OOP) was also frequently asked. In general, GeeksForGeeks is a very valuable resource.

- In conclusion, I suggest starting codeforces well in advance, and solving interviewbit problems in the weeks leading up to the internship season.

- As far as interviews are concerned, the key is to keep calm and not falter, even when things are not going your way. Day 0 companies will be slightly skewed towards algorithms and data structures, whereas later companies may ask a bit more of OOP and DBMS.

Sector: IT

Name: *Devanahalli Sunil Archana (2019H1030519P)*

Company: Siemens

Profile: Research in Digitization and automation

Recruitment Procedure

- The recruitment procedure was highly oriented towards Data science, consisting of Online round and a Technical round. The CGPA cut-off was 8.
- Online Round: Aptitude, MCQ questions were asked.
- Technical Round: Questions on machine learning (specific to my projects). I had a couple of projects in machine learning, questions on projects. Therefore, prepare topics related to projects thoroughly.

Sources of Preparation

- I used LeetCode to prepare for the interview, and GeeksForGeeks greatly helped for the technical round preparation.
- OOP, DSA and Machine Learning were important courses from the interview's point of view.

Other Relevant Information

Internships/ projects very important if related to their research (Data Science)

Sector: IT

Name: *Kumar Vivek Anand (2019H1030507p)*

Company: Boston Scientific

Profile: R&D Engineer

Recruitment Procedure

- Recruitment procedure involved Resume Shortlisting, Group Discussion and Final Interview. CGPA cut-off was 6.0.
- I was asked some questions regarding machine learning and given a scenario and how I could come up with a solution.

Sources of Preparation

- I used HackerRank to prepare for the interview, and GeeksForGeeks greatly helped for the technical round preparation.
- OOP, DSA and Machine Learning were important courses from the interview's point of view.

Other Relevant Information

- People think that it's their preparation that will get then a job but in reality, it's your overall capability like figuring out the company requirements and what actually they are looking for.
- You might have prepared for Google but you sat for Oracle or Cisco and if they see that you are so well prepared they might not take you because they will think that in future you will leave them for some other better company so show your level according to the company you are applying for.

Sector: IT

Name: *Dhairya Bhorania (2017A8PS0260P)*

Company: Standard Chartered Bank

Profile: Software Developer

Recruitment Procedure

- Recruitment procedure involved Online test, Technical round and a final HR interview. CGPA cut-off was 7.5, however the CGPA mattered very little once the initial cut-off for resume shortlisting was cleared.
- Coding and technical rounds were very easy, although a DBS question was asked in coding round.
- The Online round involved questions on MCQ and Complete Code. The Technical round was like any other generic IT technical round with moderate difficulty. They devoted a lot of time asking about my projects. The HR Round just involved the recruiter explaining the job profile.

Sources of Preparation

- CodeForces really helped in my preparation. DSA was the most important subject from the interview's standpoint.

Other Relevant Information

- Start coding well before PS1 starts. Focus on online rounds more. Projects are very important and were exhaustively discussed in my interview.

Sector: IT
Name: *Saksham Chhabra (2017A8PS0539P)*

Company: Samsung R&D Noida

Profile: Software Development Intern

Recruitment Procedure

- Recruitment procedure included two technical rounds and a final HR interview. The CGPA cutoff was 7.0.

- The first round was pen and paper-based test which involved questions on mainly Recursion, Data Structures and Algorithms and Asymptotic Analysis. The technical interview involved questions from the courses completed/ technical skills and in my case, it involved Microprocessor and Interfacing, Object Oriented concepts and Data Structures and Algorithms. The HR round was more of a sort to check the candidate's calmness and composure as he asked some tactical questions which involved technical and puzzles as well.

- Technical Round:

    - Round 1: Pen and Paper based MCQ round with no negative marking and around 50 questions with a time limit of an hour. The topics involved were Recursion, Data Structures and Algorithms and Asymptotic Analysis.

    - Round 2: It was a 30 min technical interview which involved questions from first round as well. The interviewer asked the approach for some of the questions I solved correctly in the first round. The interview was on the subjects which I had done like Microprocessors, C directives, Objected Oriented Concepts like Inheritance, polymorphism etc and Data Structure and Algorithms mainly some standard graph algorithms and their complexities, XOR Linked list etc and some mathematical puzzles.

    - If you don't know any topic just say so. If the position requires any specific skills you don't have, try and convince the interviewer that you would be able to learn those skills in the (comparatively) long time you have. For example, he asked me if I knew Operating Systems, to which I said no and hence he asked me questions on other topics.

- The final round was the HR which began with my complete introduction, family background and some standard questions like "Why Samsung?" Since the HR was from a technical background, he asked some technical questions and puzzles as well and stressed some of us in some of the questions. Mostly no one was rejected in this round.

Sources of Preparation

- I used HackerRank to prepare for the interview, and GeeksForGeeks greatly helped for the technical round preparation.
- OOP and DSA were important courses from the interview's point of view.

Other Relevant Information

- The skill set and practice especially in DSA matters the most than doing extra courses and projects.

Sector: IT

Name: *Vishnupriya Srivastava (2017ABPS0325P)*

Company: Standard Chartered Bank

Profile: Associate Developer

Recruitment Procedure

- My whole internship was focused on data structures and Algorithms and basic OOP. Flow charts and some algorithms were asked in one of the online rounds, where they didn't give any known algos, but they gave flow charts to test your basic coding skills. Then input output questions were also there. There was one question - coin change problem.
- There were total 6 rounds- 4 online and 2 interviews (But we had only one interview due to some reasons). CGPA cutoff was 7.00.

- The first round was fundamental, non-eliminating round, and it was on human values and ethics, where we had to prioritize our answers based on the situation given. We were given 5 options that we had to arrange according to our preferences. There were no right or wrong answers. It was a non-elimination round.

- The second round was Logical Reasoning, in which there were 12 questions, and for each question, we had a time limit of 75 seconds. People who qualified were sent an e-mail with a link to continue with the process. The rest were sent back.

- The third round was Numerical Reasoning. The questions were in a pair of 3 in which a table/bank statement was given and 3 questions were based on that. It was more like Data interpretation. The questions were purely based on calculations and semi-subjective. The time given for the 1st question was 90 seconds and for the rest 2 questions, 75 seconds each.

- The fourth round was an online coding test which had 3 sections – MCQ, SQL, and a coding problem. The level of MCQs was easy to moderate, and most of the questions were based on looping, but the time given was precise. I was not able to write the SQL query (it was a simple join query). There were flow charts and simple input output questions.

- The fifth round was interview round where I was grilled on my resume. The interviewer first went through my resume and asked me to introduce myself after my

introduction. In the introduction itself, I told him that I have Strong command on DSA and OOP. He then asked me some questions from OOP, and his primary focus on my DSA part, I answered all the questions confidently. He asked me some basic OOP concepts and linked it with my resume projects like which data structure I used while designing the backend of the project and which OOP concepts I had applied while doing the project.

- He specifically asked me to explain bold letter words from my resume. I mentioned the PS1 project as well in the internship section, so he asked questions from that as well. He further asked me one question from DBMS, but I said that I hadn't done DBMS, so he didn't ask any questions from DBMS. So, all in all, you must have a decent hold on whatever projects and subjects you have mentioned in your resume. They won't grill you outside your resume.

Sources of Preparation

- I used InterviewBit and CodeForces to prepare for the interview, and GeeksForGeeks greatly helped for the technical round preparation.
- OOP and DSA were important courses from the interview’s point of view.

Other Relevant Information

- Have a good grasp of DSA and OOP and everything that you wrote in your resume. Do prepare for other companies' questions as well. During the internship season, it's essential to stay calm and revise old concepts and solve questions of other companies' online rounds.
- I hadn't done any internship, so indeed, PS-1 was a savior. It was a light PS so I could do competitive.

Sector: IT

Name: *Onkar Deshmukh (2017A3PS0255P)*

Company: **Samsung Research Institute, Delhi**

Profile: **Summer Intern**

Recruitment Procedure:

Offline Group Fly Round, Technical Interview

- **Group Fly Round:** Offline Group Fly round was conducted having 1 question to write the code using pen and paper for 30 min. The Group Fly round had a lot of weightage in the selection process. The question asked was related to graphs and BFS/DFS was used for solving it.

- **Technical Interview:** The round consisted of questions asked on Linked list, 1-2 puzzles, questions on arrays. There were questions asked also on CP and using basic operators in writing a 2-3 line code in 1.

Sources of Preparation:

- InterviewBit
- GeeksforGeeks
- Codeforces
- Courses: OOP and DSA

Other Relevant Information:

Revise DSA and OOP. Knowing algorithms will make it easy while coding.

Sector: IT

Name: *Aviral Sethi (2016B3A70532P)*

Company: Microsoft

Profile: Software Development

Recruitment Procedure:

- **Online Test:** 3 coding questions. Questions were related to general DSA concepts primarily string manipulation and trees.

- **Technical Interview:**

    - **Round 1:** Mostly questions were asked around the concepts of DSA. I was given a problem based on trees and heaps and was asked to code on paper. Time complexity of the proposed algorithm was significantly considered. Since the interview requires one to write code on paper, I solved 1-2 questions by writing them out on paper to get the hang of it and not on an editor which everyone is comfortable with.

    - **Round 2:** Many questions related to my resume, SOPs, general CS concepts were asked. Also, DSA oriented problem was given to be coded on paper.

Sources of Preparation:

- InterviewBit
- GeeksforGeeks
- Codeforces
- CodeChef
- Courses: OOP, OS, DSA

Other Relevant Information:

Have a good understanding of the basic concepts of DSA, OOP and OS. Try to participate in competitions held on codechef, codeforces etc. Make of habit of doing time-bound practice. There are many platforms like codeforces etc. that are available for the same.

Sector: IT

Name: *Sanjeet Malhotra (2016B4A70601P)*

Company: Salesforce

Profile: Intern Software Engineer

Recruitment Procedure:

- **Online Test:** 3 coding questions on HackerRank. They used heaps, dynamic programming and one was from interview bit.

- **Technical Interview:**

    - **Round 1:** They asked me two coding questions and both were from interview bit and can be found in two pointer approach. And some application-based question related to OOP.

    - **Round 2:** Coding question: Given two binary search trees merge them and print element in inorder traversal. Then they asked questions on OOP and a question related to use of log records from transaction topic in DBMS.

Sources of Preparation:

- InterviewBit
- GeeksforGeeks
- Courses: OOP, DSA, DBS

Other Relevant Information:

Coding and core knowledge matters equally.

Sector: IT

Name: *Mohit Kriplani (2016B1A70870P)*

Company: Uber

Profile: Software Development Intern

Recruitment Procedure:

- **Online Test:** There were 3 questions to code. The questions were on Dynamic Programming, Bit manipulation and Graphs.

- **Technical Interview:**
  - **Round 1:** The first round was on Hackerrank codepair about design question. The question was about implementing a system for booking a meeting room by employees of a company requesting other employees to join the meeting. There were follow up tasks like if room to be booked is already booked for that slot is there any other room free for the same slot etc. Try to maintain modular code and use OOP concepts in these kind of design problems.

  - **Round 2:** The second round was about problem-solving skills. The question was to find the number of connected components in complement of a given graph.

Sources of Preparation:

- InterviewBit
- GeeksforGeeks
- Codeforces
- CodeChef
- Courses: OOP, DSA

Other Relevant Information:

To get through online test one must practice and get hands-on competitive coding. During

the interview, one must seek clarification about the question asked. This is to understand the parameters and also let the interviewer know that you are seeing the big picture covering all cases. Don't rush to code even if you know the answer. Elaborate your thought process and explain the trade-offs in various alternate solutions.

Sector: IT

Name: *Siddhanth Kharbanda (2017A7PS0111P)*

Company: Walmart Labs

Profile: Data Engineering

Recruitment Procedure:

Walmart Labs has a unique selection process where there is only 1 interview round, that is an HR round. They do ask certain mental ability and trick questions in that.

- **Online Test:** 20 MCQs and 1 easy coding question.
- **HR Interview:** Only an HR round which had a couple of mental ability questions and some about your family background.

Sources of Preparation:

- InterviewBit
- GeeksforGeeks
- Codeforces
- Courses: OOP, DSA and DBS

Other Relevant Information:

Code for at least 2 months before start of Internship season to score a day 1 company. It is advisable to complete all mainstream courses for Placements online and keep doing Codeforces alongside.

Sector: IT

Name: *Paidipelly Hemanth Rao (2017A7PS0159P)*

Company: Servicenow software Development Pvt.ltd.

Profile: Software development intern

Recruitment Procedure:

- **Online Test:** Some MCQs along a coding question. MCQs from OOP DBMS logic etc and a coding question.

- **Technical Interview:**
  - **Round 1:** Offline interview. They asked to write some small chunks of code explaining logic and some questions on DBMS like drawing schema.

  - **Round 2:** Screen sharing interview. He was asking me some bigger coding questions and I have to first explain logic and then write the code on screen.

Sources of Preparation:

- InterviewBit
- GeeksforGeeks
- Courses: OOP, DSA and DBS

Other Relevant Information:

Try to do coding in PS 1. That will surely help.

Sector: IT

Name: *Akash Kabra (2016B3A70562P)*

Company: Arcesium

Profile: Software development intern

Recruitment Procedure:

Recruitment Procedure of Arcesium tested the knowledge in DSA, DBS, OOP as well as Aptitude. In each round, we were tested the clarity of fundamentals of all the aforementioned courses.

- **Online Test:** Online Test was of 1.5 hours duration and had 3 parts. Each part had a predefined fixed time and it could not be attempted after that time. There was negative marking for part 1 and part 2.
    - **Part 1:** Quantitative Aptitude. This part consists of a bunch of basic Aptitude Questions. You just need to be fast. Don't try to attempt all possible questions, because it's close to impossible. Just solve as many questions as you can. You can go for logical guesses.
    - **Part 2:** CS MCQs. Solving this is relatively easy as sufficient time is given for this section. It had code snippets of JAVA, and some OOP concepts were tested. It also had some DBS, C++, C and DSA related questions.
    - **Part 3:** Coding Questions. It had 2 questions: One was a basic data structure based greedy question. It was important to identify the data structure to be used for solving it, and then it was pretty simple to solve. 2nd was a combinatorics problem. It was similar to the derangements problem: https://www.geeksforgeeks.org/count-derangements-permutation-such-that-no-element-appears-in-its-original-position/
- **Technical Interview:**
    - **Round 1:** All concepts of DSA, DBS, OOP were tested. I was asked a puzzle: If you have a function which returns 1 with a probability 0.5, construct a function which returns 1 with a probability of 0.75 (Sol: fun()

XOR fun()). Then I was asked a question on trees and then asked to write the code on paper. Then I was asked to design an Entity Relationship Diagram for Airport Baggage Design. It was a kind of open-ended question, but making them realize that I know relevant DBS concepts was important. Further small questions in ER Diagram were asked. Some OOP concepts were asked.

- **Round 2:** Round 2 stated with 3 SQL queries. First 2 were pretty basic and briefly reading Lab sheets one night before the interview sufficed. I could answer 2/3 queries correctly. I won't suggest to focus too much on SQL for interviews, atleast. Then I was asked a DP question. I don't remember that question clearly, but I remember that interviewer was very stringent on time and space complexity. We generally don't care a lot about the space complexity, but that was the trick. I had to suggest 4 different approaches to satisfy the interviewer with my approach.

- **Round 3:** It was primarily project discussion and DSA. I was asked a single question. Design an algo to check if an expression is well formed. (a+(b*c)) is a well-formed expression, but (a++b), (ab+,)a/b) are not well formed. A two stack based approach, one for identifiers and other for operators worked.

Sources of Preparation:

- InterviewBit
- GeeksforGeeks
- Codeforces
- CodeChef
- LeetCode
- Courses: OOP, DSA and DBS

Other Relevant Information:

1. Practice gfg, interviewbit

2. In interview, speak whatever you think. Let interviewers know that you know well

3. Suggest as many algorithms (including the Brute Force one) to the interviewer as possible

4. Practice DP and Graphs, but don't forget questions on Binary Search and Strings. A lot of online tests had tricky binary search questions which were simple enough if one has done sufficient problems of binary search.