

## DAY 2 @ SURFBOARD PAYMENTS

### INTRODUCTION

I came to the office at 10 a.m. The session started around 10:20. We recapped what we had learned yesterday. Yesterday, I learned about technical and non-technical skills, key skills required for Programming/coding like Problem-solving, reading, writing, and speaking. We had an introduction to problem-solving like what are all the steps in problem-solving. First, don't avoid the problem, Understand the problem make constraints of the problem, and write down the various operations. For each step, Koushik Anna gave an example to make us understand it easily. We were given a sheet to figure out our top 5 skills from the given sheet and rate it out on a scale of 1-5. It was very tough to find my Top five skills. He gave an introduction about what we are going to do in this internship.

We started the session with a game. The game was a sliding puzzle there will be eight numbers in nine boxes in 3\*3 format. It will be in some random order. we have to arrange it in order (one to nine). we can move only the adjacent boxes. He asked us to form a group of four members and solve the problem. we formed a group and we tried to solve it in our note. It was very tough to solve it in the notebook. No one solved it and the time is up. He came up with a brilliant answer which is he asked us to solve it but didn't say to solve it in the notebook by writing down and changing it, Instead you can cut the paper into eight small pieces and you could have solved it easily. I wondered why I didn't think that way. So the problem is easy or hard depending upon how we see the problem. We shouldn't see it in one straight way. we should look out for various possibilities and find the best solution out of it. I loved this idea. It applies to everything, it's basically how we see the problem. It is not small or large or tough or easy. It depends upon how we see it. Next, he drew a Sudoku game and explained how the game works. We have to write numbers from one to nine for each column and row and for each grid which shouldn't be repeated. In that, we tried to say some numbers randomly and in this grid the center grid was the toughest because we had to check for both rows and columns, and the center grid had the most rows and columns. So we have to solve the toughest grid first and the second toughest grid and vice versa. from this example, we should always solve the toughest constraints and vice versa. this was the fourth step in Problem-solving. The morning was superb. We had a small break.

After a break, Koushik Anna gave us a game that was introduced in the 17th century. There were rivers parallelly and one was adjacent to it. there were seven bridges to cross the river and there were four areas. we can start from anywhere and stop it anywhere but we have to cross every bridge and we can cross a bridge only one time. he asked us to solve the problem and I tried to understand the program and checked for all possibilities but nothing was successful. I tried for every possibility but I couldn't come up with an answer. the time is up. He said This problem couldn't be solved. So, what I learned was not every problem has the answers. after that, we had a lunch break. we were provided with good food. I loved the food. Abraham Sir came and gave an recap of what we learned yesterday and asked us again to see Grok AI, which is an open-source platform that has free deep learning. Koushik Anna came and told us to speak with the employees working and ask them what they were doing. Myself, Ajmal, and Harris went to speak with the employees. Initially, we were scared, and didn't know how to start a conversation with them. Then we boosted our confidence and tried to ask them doubts.

first, we met Praveen Anna, he was busy doing his work but when we approached him he was very humble and polite. We introduced ourselves and asked him what is he doing. he works as a mobile developer in surfboard payments. he uses the Flutter application to code. the language he uses in Flutter is dart language. he designs the applications. I learned some basic ideas about flutter

and dart language and explained about the project. he motivated us to feel free and confident enough to speak with the employees.

We met Abhishek Anna and Benedict Anna, They are working as Network Security Engineers. they explained about the information technology security part of how they are preventing the application from hacking by testing it with some software. We asked many doubts about Networking and they patiently explained it to us. they also mentioned Abhishek Anna is the red team and Benedict Anna is the blue team which means the role of the red team is offence, they try to attack the applications by virus or something else. The role of the blue team is defense, they should defend the application from the virus that was sent by the red team. It was very interesting for me. I had an interest in this field and I learned something new in it.

We met Aravindh Anna who is an infrastructure engineer. he optimizes an organization's IT infrastructure and takes care of the cloud and physical servers of surfboard payments. surfboard uses Google's cloud platform. he also explained us about testing. after testing the application, it has 3 types of testing normal testing, beta testing, and final testing.

Next, we met Berlin Anna, he is a backend developer in JavaScript and node JS. He codes the backend code and tests it only with the positive command and sends it to the testing team. they test the application for both positive and negative commands. if they find some errors, they send it back to the developer and tell them to rectify it. While developing an application both frontend and backend work simultaneously.

Next, we met Vijayakumar, he is a new employee in this company. he completed the internship in December and joined this company in January. he shared his internship experience and he was very friendly.

Next, we met George, who is also a backend developer. he was so humble and explained the concepts more readily. he taught us about how an application is processed from data to apk format. he showed us the Surftouch beta product. I learned about how Surftouch is made and he told us about the competitive company Stripes payments and surfboard payments not only in Sweden but also in Norway, Finland, and the UK. He monitors the merchant's dashboards and sends a daily report to the merchant. he explained how the payment concept works in Sweden and India. I learned how a payment gateway works with an easy example. I learned how UI/UX design, front end, and backend work. He cleared all our doubts and it was great speaking with him.

Next we met Jeffrin. he is an infrastructure engineer, gave some basic knowledge about it and shared his journey with us. and next, we met Vinal, he is a software tester. he test the code sent by the developers and also takes care of the card scheme certification of surfboard payments like VISA, and Mastercard. We wind up and went home. It was a good day learned many things about surfboard payments.