Purushottam (M. Sc. 2020-2022)
Amazon Interview Experience (6M Internship)

Online Assessment :
1. Debugging Questions - 20 mins
2. Coding - 70 mins
   - https://leetcode.com/problems/maximum-units-on-a-truck/
   - Second question, i don't remember much, but it was new, means they have designed that problem
3. Work Style Assessment - 20 mins
4. Logical Reasoning - 35 mins

Technical Round1 :

The interviewer introduced himself and asked me if I wanted to know anything else about him. I asked him what type of things he does at Amazon and how long it has been since he's working with amazon. And then he asked me to introduce myself. He then asked what new technologies I have learnt in the last 6 months. He then asked me to explain my project, and he also asked about any other project. I did mention an incomplete project, he asked me to explain it, he wanted to know what I have done, what work is remaining and he gave me some ideas to make my project better. We have spent more than half of our time in introduction and project discussion. Then he asked me to program a Job Scheduling Priority Queue and I also have to implement aging such that starvation doesn't occur.

I was thinking how to do this, and speaking to myself about how I would solve the problem. He asked me what approach and data structure I'm thinking of using.

I said priority queue, then he asked me how will you take care of starvation. He was providing hints. He asked how to implement a priority queue. I said heap. Then I understood what he actually wanted. He wanted me to implement a priority queue using min heap in which I must decrease the priority value of all the residing jobs whenever a job is picked. He was satisfied with the approach. He asked me to code it. In the end, the code was not completed, two minor functions were still incomplete as we have spent the most of the time in project discussion. He gave me 5 extra minutes. I did manage to code 1 function completely and the other one almost completely. Interviewer was very friendly and helpful.

Technical Round2 :

The interviewer introduced himself and asked me to introduce myself. He then asked me about my skills. And he asked me about the project. It was a data mining topic **FP-Growth Tree**. He asked me what is the need, what is the importance, and asked me to explain the topic. The project discussion went smoothly. He asked me then 2 coding questions :

1. In this problem, we are given arrival and departure time of trains and a given number of platforms. We have to return an object which has the starting time of train and departure time of train and color to which it's assigned. There were two colors available: red and green. We have to map the colors to the train like this: when a train arrives and there's a

platform available, we will make it green and when the train arrives, but there is no available platform, then make it red.

2. https://www.geeksforgeeks.org/gold-mine-problem/

I was able to code both questions. The interviewer said Perfectly Ok. This interviewer was friendly too (but not as much as the first one) and he was so helpful.

Just be honest, believe in yourself, show confidence, make the interview interactive.

All the best guys. Prepare well.