

Amazon Interview Experience for SDE 1 | Off-Campus

- Last Updated : 20 Aug, 2021

I applied for SDE1 on the Amazon job portal. After few days, I got an exam link from Amazon. In the exam, there were 2 coding questions (DP, Greedy) and 2 descriptive questions in which we have to explain how we approached the above 2 questions and write about their time and space complexities.

After few months, I got an Amazon Interview preparation call, in which they explained the whole interview process.

Interview Round 1: The interviewer was SDE2 and made me comfortable by telling about himself and asking about myself. Then he asked about my projects, it was a long discussion and took 25 mins.

- Then he asked a coding question: <https://www.geeksforgeeks.org/boggle-set-2-using-trie/>. I first told him the DFS approach and then optimized using trie. We discussed all the edge cases and time complexity. He seemed impressed by my approach.

I had the next interview scheduled just after this.

Interview Round 2: The interviewer was SDE2 and she directly started with coding questions.

1. The first question was: <https://practice.geeksforgeeks.org/problems/search-in-a-rotated-array4618/1>. I started with brute force and then explained $O(n \log n)$ solution using Binary search. After some, I told her the $O(n)$ approach.
2. The second question was: <https://practice.geeksforgeeks.org/problems/search-in-a-matrix17201720/1>. I solved it using binary search.

After few weeks my next rounds got scheduled.

Interview Round 3: The interviewer started with a briefing about himself and then asked about myself.

- Then he asked, have you ever faced a problem with a deadline?
- Then asked the question: <https://www.geeksforgeeks.org/minimize-cash-flow-among-given-set-friends-borrowed-money/>. I haven't seen this question before, so I took 4-5 mins to think. Then I explained to him my approach using DFS and bottle-neck. We discussed all the edge cases and time and space complexities. Although its preferred approach is greedy, I was able to do it in the same time complexity using DFS. He was happy with my solution.

Round 4 was scheduled the next day.

Interview Round 4:

1. The interview started with the coding question: <https://practice.geeksforgeeks.org/problems/add-two-numbers-represented-by-linked-lists/1> He said don't modify the input, so I used recursion with some conditions. He was impressed with the solution.
2. Then he asked another question: <https://practice.geeksforgeeks.org/problems/print-a-binary-tree-in-vertical-order/1>. I explained the approach using preorder traversal, then he said it will give a wrong answer for some cases so I used level order traversal. He also asked me to tell efficient and optimized data structure for this problem.

3. Have you ever learnt something on your own.
4. On what technology do you want to work.

Then he said we will let you know in 7 days.

After 7 days I got a call from HR that you got selected.

Keep solving problems, gain basic knowledge of all CS Subjects. Go through Amazon Leadership principles and have faith in yourself.

My Personal Notes\ *narrow_drop_up*

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