

Interview Experience – AMEX

No of Rounds : 1 online + 2 offline interviews

Online Assessment

It consists of 3 coding qns

1. Given a word, calculate the smallest number of letters that must be removed in order for the letters of the remaining words to be sorted in lexicographical order
2. Given 2 strings represent digits. The goal is to make those numbers as close to one another. In other words, you want to minimize absolute value of their difference. We can swap some of corresponding digits of 2 numbers. Find the min no of swaps needed to minimize the diff.
3. DFS Problem . Given a integer grid we have to find a path consisting of 4 cells. We can move in 4 dir (horizontally and vertically). The task is to find the biggest integer we can achieve in this way

Round 2: Technical + Behavioral

Introduction

- The interviewer began with a short self-introduction.
- I also introduced myself briefly, highlighting my academic and project background.

Behavioral Questions

- **Key skills learned during college:** Asked me to elaborate on the important skills I gained in four years. I mentioned in both technical and personal aspects. (like faced many failures and rejections yet I didn't give up).
- Since I had mentioned **adaptability** in my resume, they asked:
 - *"In what kind of situation did you actually demonstrate adaptability?"*

Subject-based Discussion (DBMS)

- Favorite subject: **DBMS** → Follow-up questions:
 - What is **Normalization**? (with examples)
 - What is **Data Manipulation**?
 - What are **ACID properties**?
 - A few **scenario-based questions** on DBMS concepts.

DSA Questions

- Basics: *"What is a nested function?"*

- Problem: Given a random array → sort them.
 - I wrote **pseudocode using Bubble Sort** to solve it.

React Questions

- Since I had React in my resume:
 - Explain **useState** and **useEffect**.
 - Write a **simple React component**.

Puzzle

- *“If you are currently in 3rd position and overtake the person in 2nd position, what is your current position?”*
 - (Answer: **2nd position**).

Company-related Questions

- *“Why AMEX?”*
- *“What do you know about AMEX?”*

My Questions to the Interviewer

1. What kind of tools and technologies do software engineers use at AMEX?
2. How do you measure the success of engineers at AMEX beyond meeting deadlines and completing tasks?

Round 3: Technical Deep Dive + Behavioral

Project Discussion

- Detailed questions on:
 - My **Machine Learning project**.
 - My **Gen AI project**.
- They asked:
 - Why I chose certain **tech stacks**.

DBMS Questions

- Difference between **SQL and NoSQL**.
- When to choose which database.

DSA Question

- **Next Greater Element** problem → asked me to solve.

System Design Scenario

- Given a problem statement, I had to explain:
 - **How I would design the system.**
 - **What tech stacks/tools** I would use.

Behavioral Questions

- *"If you have multiple tasks with the same deadline, how would you manage them?"*
- *"Why AMEX?"* .

My Questions to the Interviewer

1. How do engineers at AMEX balance **innovation** with **security and reliability**?
2. What is the typical **career growth path** for engineers at AMEX?

Mostly the qns were asked from resume . So be confident with ur resume .

Key Areas to focus

DSA – I referred strivers A to Z

Projects - when u explain about the prj mention what is that prj, problem statement with existing one, what is the scope of it, what are the unique features u have included(if any),why that particular tech stack have been used , what are the challenges faced and how would u overcome it , what are the future enhancements ur planning to include

Core CS Subjects(OS,DBMS,OOPS,CN) – GFG , Interview bit

Other tech stacks which u have mentioned in resume

Small Tip

Be Confident while answering qns in interview. Communication with confidence is the key to crack the interview