SAP LABS INTERVIEW EXPERIENCE

Round 1: Coding Round

- Two questions were asked in this round. Different questions were asked to everyone. I will share the links to the questions along with my thought process, approach, solution and time and space complexities needed.
- CLICK_HERE
- You can also refer to this repo to access company based placement questions and you can also contribute your experiences and questions you have faced here.

Interview (21-08-2025)

89 students were shortlisted for the role of Developer Associate. There were no fixed slots and we had 4 rounds of interview, two technical, one techno-managerial, and one HR round. We were asked to assemble at 8:30 and 12hours had elapsed before the completion of the entire interview process.

Round 1 – Technical

This round started with a little self-introduction, about my projects and the intern I had done. Then from my resume the interviewer asked about cron, and then the interview had flown into daemons, OS, compiling a kernel, keylogger and notifier chains and to threads concurrency and the type of locking primitives in OS. Then some basic questions were asked in networks about TCP, UDP and multiple access control. Then in the java section the first question was about the OOPS pillars (abstraction, encapsulation , inheritance and polymorphism) and difference between abstraction and encapsulation with example code. Then I was asked about the standout feature about java and then we started going into the garbage collection mechanism. I had explained about the reference counter and mark-and-sweep approaches even though I didn't know the name of the algorithm, but what I had guessed and derived turned out to be pretty accurate. Then concurrency related questions were asked and thread creation, difference between thread and runnable , interface vs abstract class and diamond problem were asked. Then Normalization related topics were asked in dbms. Overall it had covered all the core subjects in a pretty deep manner and I was able to answer them. Finally I was asked to solve the questions I had got in OA and I explained them my approach and solved them and the interviewer was satisfied.

Round 2- Technical

This round was a DSA based round, the first question asked to me was finding a cycle in linked list. I explained the hashset based and Slow-and-fast pointer based approach. I was asked to think about some other approaches too but I wasn't able to, and then we had moved on to the next question. Now I was asked to find if the parenthesis were valid, the first level was order of parenthesis didn't matter, so I suggested a counter based single pass approach, in the next level order mattered so I switched to stack based approach. Then I was ask to design an API rate limiter, my approach moved from sliding window to hashmap, and then creating a custom object. I had discussions about the SAP based HANA project, and then we were discussing about WALs(Write Ahead Logs) and the overhead of maintaining an in-memory database and the ACID compliance of it.

Round 3- Techno-Managerial

In this round I was asked about my schooling, I had studied in 4 schools I had explained why it had to be done and about my parents occupation. Then we were discussing about my sports, and I was asked to design an ER model for cricket game (Tracking info across all the matches), I was tasked with

figuring out the key entities and their key attributes, the foreign key dependencies and querying patterns. Then we started talking about F1 and how it the development of F1 cars compare to the AGILE model. Rest of the discussions was mainly driven by our passion to F1 and It wasn't technical.

Round – 4 (HR)

I was asked about my intern and why I had decided to switch. I was asked if I was willing to shift to Bangalore and if I was ok with doing 6-month intern. Then I was asked about the team projects I had done and what I had learnt from each of the projects In terms of team coordination, my contribution and overall outcomes.

Final Tip:

- Know how to solve the questions given in the OA. Some students fail to do this, which creates a loss of integrity.
- Fix your resume to contain contents which you have actually done and have knowledge about. Don't use content from your friend's resume or don't fake anything.
- Try to highlight the need and the impact of your projects when explaining rather than just technical aspects.
- Stay confident and remember "Communication is Truth"

All The Best !!

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