Egencia Interview Experience

Abhishek Passan (MCA 2020-23)

Online Assessment (1 hr) - 10/12/22

There was a total of 25 questions, all language based (Java) with some DSA questions mixed in between.

Round 1: Technical Interview - 14/12/22

The interviewer introduced himself and then asked me to give my introduction. Then he asked me which subjects I studied in my curriculum and asked my favourite subject, to which I answered DBMS, which was followed by questions on same.

Then he jumped into DSA.

Problem 1: Given an arbitrary binary tree, find its mirror image.

https://leetcode.com/problems/invert-binary-tree/

This was relatively straightforward question which i was able to solve with recursion in a bottom up fashion. But then he gave me a follow up to do the same with a top down approach.

With the follow up, I tried to come up with several approaches but each time it was just a different version of the bottom up one, finally I dry ran my code and was able to come up with a top down approach. Then he asked me to code both the approaches.

Problem 2: Implement Queue using Stacks.

https://leetcode.com/problems/implement-queue-using-stacks/

First thing I asked if I could use 2 stacks, he agreed and then I gave a brute force approach which I optimised to run in amortised O(N). Then he asked me to code it.

Round 2: Technical and Behavioural Interview - 15/12/22

This round started in the same manner as the previous one with the introductions.

After introductions out of the way, he moved onto the projects I mentioned in my resume, asking me questions about what tech stack I used, what all I implemented in the project, the APIs I created / used, etc.

That was followed by a lengthy discussion on JSON web tokens that I used for authentication in one of my projects. Then he gave me one DSA question.

Problem: You are given a text containing sentences which contains words, and you have to give

the K most frequent words. Similar to -

https://leetcode.com/problems/top-k-frequent-elements/

I already knew the most optimal approach which runs in O(N logK) time using heap which I explained to the Interviewer. Then he asked me to code it after which he seem satisfied and prompted me to ask any questions I had.