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Amazon Interview Experience for SWE Summer Internship 2021

- Difficulty Level :\nMedium
- Last Updated :\n27 Jan, 2021

I applied in the AmazeWow program in April 2020 and the process started in late May, consisting of 1 online assessment and 1 interview.

Online Assessment

Date : window open from 22 May \xe2\x80\x93 24 May 2020

- Code Debug : Find the bugs in 7 pieces of codes. (Time : 20 minutes)
- Coding Test : 1 question on DP, 1 question on DFS (Time : 70 minutes)
- Work Styles Assessment : This is built around Amazon\xe2\x80\x99s Leadership Principles, they ask us to choose what extent a provided statement represents our work style. (Time : 10-15 minutes)
- Logical Ability : Questions based on language comprehension, mental ability and Maths (Time : 35 minutes)

Interview

Date : 18 June 2020

Mode : Video call through Amazon Chime, live coding on a shared doc

Time : 1 hour

The interview started with brief introduction of the interviewer, followed by mine.\xc2\xa0

Then he started the discussion with basic questions on data structures like comparison of Stack and Queue.\xc2\xa0

Coding Questions :

- Insertion and Search in Trie : I was asked to only write the functions, assuming the structure of trie-node to be given.

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- Sum of nodes at lowest level of Binary Tree : Given a binary tree, find the sum of values of nodes present at the last level.
  - I first coded an approach similar to level order traversal. At last level, find the sum of elements present in the queue.
  - He then asked me to provide a solution without using extra space. I did it by writing a function to find the height of the tree and then finding the sum of nodes at last level.
  - Then I was asked to provide a solution without writing a separate function for finding height. I used an approach similar to this : https://www.geeksforgeeks.org/sum-nodes-maximum-depth-binary-tree/

Then he asked me 2 question related to OOPS.

1. Polymorphism and its types
2. Encapsulation

Similar article : https://www.geeksforgeeks.org/object-oriented-programming-in-cpp/

The interview ended with a discussion about the company.

I got the result on 7th August 2020 and I got selected for the internship.

Most useful resources based on my experience : GeeksForGeeks, InterviewBit, Codeforces.

My Personal Notes\narrow_drop_up

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