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Amazon Interview Experience | SDE (On Campus)

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Amazon came to our campus (BIT Mesra) to hire FTE and 6 months interns .

Online Round : First round was online round consisting of 30 questions \xe2\x80\x932 coding questions and 28 mcq questions based on C, C++, Basic Networking. The test was conducted on mettl platform. Everyone had different set of questions . Some of the questions were :

1. LCS
2. Some String implementation question
3. Dice Throw Problem
4. Roots of quadratic equation.

After this round, 30 were shortlisted for\xc2\xa0 further rounds.

Round 1 (Technical Round) :\xc2\xa0 The first 15-20 minutes were spent on project discussion, some cases to solve\xc2\xa0 and use of process synchronization. Then the interviewer asked 2 coding questions :

1. https://www.geeksforgeeks.org/print-nodes-distance-k-given-node-binary-tree/
2. \xc2\xa0https://www.geeksforgeeks.org/function-to-check-if-a-singly-linked-list-is-palindrome/

Initially, they want to know about the approach, if satisfied, they ask to write full functional code on paper . In between, they asked about the complexity of algorithm and more optimization that could be done on it.

Round 2 (Technical Round):\xc2\xa0The interviewer gave 2 coding questions :

1. Find the LCA (Least Common ancestor) of nodes having maximum depth in a given rooted tree . He asked about the approach, complexity and data structure to use . In between, he asked some common questions like time and space complexity of dfs, bfs, dijkstra (in terms of E and V) .
2. \xc2\xa0In the last 15 min, he asked me to implement queue using two stacks.

He asked me to code both questions on paper . Take care of corner cases like skew tree, empty stack, etc .

After this round, 12 of us were given 6 month internships . 3 of us were shortlisted for further rounds .

Round 3 (Technical Round) : The interviewer asked me 3 coding questions :

1. https://www.geeksforgeeks.org/perfect-sum-problem-print-subsets-given-sum/
2. Given a list of string\xc2\xa0 and a prefix . He asked to print all the strings in the list\xc2\xa0 having that prefix . He asked what data structure to use, time and space complexity of it . He basically wanted to see\xc2\xa0 implementation of operations on trie\xc2\xa0 .
3. https://www.geeksforgeeks.org/given-sorted-array-number-x-find-pair-array-whose-sum-closest-x/

Round 4 (Behavioral\xc2\xa0+ Technical) :\xc2\xa0\xc2\xa0 This round was taken on amazon chime . This round was of 1 hour .

Behavioral (30 min):

- \xc2\xa0 Give an example of an occasion where you\xe2\x80\x99ve done a thing that was very hard for you .
- \xc2\xa0 How did you handle shortcomings in your project .
- \xc2\xa0 Compare your project with the current existing technology or project in real world scenario .
- \xc2\xa0 He asked questions related to my project like why did you chose this technology, alternatives of the technology, difference between vertical and horizontal scaling, etc .

Technical (30 min) :

- Given a package and a list of packages associated with it (Means the package is dependent on those list of packages) . Now, you\xe2\x80\x99re given a package name, let\xe2\x80\x99s say A, print all the packages in sequence that you need to install in order to install package A .\xc2\xa0 This was basically an implementation of Topological Sort . He was more interested in the approach and then asked me to code it up on editor .

Result : Selected for FTE \xf0\x9f\x99\x82

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