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Amazon Interview Experience for SDE Role | 6-Months Internship + PPO (On-Campus)

- Difficulty Level :\nEasy
- Last Updated :\n29 Sep, 2021

Amazon arrived for hiring in the last week of July 2021 on our campus for the **Software Development Engineer Role**. We had a total of 3 rounds **(1 Online Coding on Amazon\xe2\x80\x99s Assessment Portal + 2 Technical Interviews).**

Here is my interview experience for the same.

Round 1(Online Coding Round): This round was conducted on Amazon\xe2\x80\x99s own Assessment platform, There were MCQs on Aptitude, Basic Programming, CS fundamentals, English Comprehension, and Decision Making along with 2 coding questions of easy/medium difficulty.

- Suggestion for MCQs: Have a sound Knowledge of CS Fundamentals and Aptitude Solving Practice.
- Coding Questions were based on Implementation only.
- Good practice on Implementation based problems involving **Maps, Vectors, Sets, and other C++ STL components is a must**.

Round 2(Technical Interview 1): The platform *for* the *Interview was* **Amazon Chime**

The Interviewer asked only 2 Coding Questions in this round:

1. The first problem was, **Given an array of size n having n elements and another array of size n+m having m elements, Sort these two arrays and store the final result in the second array, which should contain the elements of both the arrays.**
   - First I suggested a Brute Force solution by using a third array and then sort them and put them back in the Second array.
   - After that, I suggested a better solution without using a third array, by comparing elements from starting of the first array to the elements at the starting of the second array.
   - After that, he said you are close and then gave me a hint, and I was able to solve the problem successfully.
   - After that, I was asked to code the solution for this problem, which I did as well.
   - And then I was asked to determine the **Time and Space Complexity** of my code.
2. The Second Problem was, **Given a Binary Search Tree, Convert it into a Sorted Doubly Linked List and return the Head Pointer**.
   - This was a **Standard Problem of BST**.
   - I explained my **Approach** by Traversing from the right to left in the Tree to get the Sorted order of the Linked List.
   - And then I wrote the code for My solution.
   - The interviewer was satisfied with my Code and then asked me to determine the **Time and Space Complexity** of my code.

After this, he asked if I had any questions for him. This round lasted for about 60 Minutes.

Round 3 (Technical Interview 2): The platform for the Interview was **Amazon Chime**

The Interviewer asked 2 Coding Questions and some Behavioural Questions in this round :

1. The first problem was, **_Find the first 100 Prime Numbers._**
   - For this Problem first, I suggested a Brute Force Approach by checking numbers starting from 2 whether they are Prime or Not, till we get 100 Prime Numbers.
   - After that, I suggested a better approach, which is using the [Sieve of Eratosthenes Algorithm](#).
   - He was satisfied with my Approach, after that he made me code the Solution.
   - After that, he asked me the **_Time and Space Complexity_** of my Code.
2. The second problem was, **Given an array of Strings, find which strings can be combined with other strings in the array so as to make the strings that are present in the array.**
   - For this Problem, First, I suggested a Brute Force Approach using Maps.
   - After that, he asked me for a better approach.
   - After Thinking a while, **_I figured out another Approach using Trie_**.
   - He asked me to explain the **_Concept of [Trie Data Structure](#)_** and why do we use it.
   - After that he asked me to code the solution using Trie.
   - After I completed the code, he asked me the **_Time and Space Complexity_** of my Code.
   - I was, to give the proper logic and explain my approach to him and he was satisfied with my Solution.

After this, he asked me some **_Behavioural Questions which are the Important Part of all the Amazon Interviews_**. Fortunately, I had already prepared for some of the Most asked Behavioural Questions by Amazon. The behavioral questions were,

1. **_What is the most innovative thing you have done?_**
2. **_When is the time when you tried something unique, Did you failed or succeed?_**

After this, he asked if I had any questions for him. This round lasted for about 65 Minutes.

After around 1.5 Weeks, the Result was declared and **_I was selected for the role of Software Development Engineer (6-Months Internship + PPO)._**

My suggestion for the Interviews :

1. Practice all the [Standard Amazon problems from GfG.](#)
2. Have a good understanding of the CS Fundamentals in OS, DBMS, CN, and OOPS.
3. Prepare some **_short notes on CS fundamentals and DSA Problems_**, which will we useful for last-minute revision.
4. Prepare and notes down answers to some [Standard Amazon Behavioural round questions](#) :
   - Tell me about Yourself.
   - What are your Strengths and Weaknesses.
   - Tell me about a hard situation for you, and how did you overcome it.
   - Tell me about a time when you took a risk and failed.
   - Why should we hire you.

At last, always keep calm while giving the Interviews for positive results.

All the best for your Interviews.

My Personal Notes\n*arrow_drop_up*

Add your personal notes her

Save

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