ACCOLITE INTERVIEW EXPERIENCE - SDE I
AANCHAL PATIAL
MCA 2018-21

DAY 1 :

Round 1: Aptitude Test

Platform : EduThrill

No. of Questions : 30 MCQ Test (No negative marking)

Duration : 30 minutes

Questions would be related to CS concepts & Programming and overall Aptitude.

- 1. OOPs Concepts
- 2. Operating System
- 3. Networking
- 4. Data Structures
- 5. DBMS

Tip: It is advisable to practice on EduThrill app as questions get repeated. Round 2: Online Coding Test

Round 2: Online Coding Round

Platform : CodeAnalyzer

No. of Question : 1

Test Duration : 60 minutes

Problem : Given a list of coins, distribute them into 3 groups with equal sum. If possible return true else return false.

https://leetcode.com/problems/partition-to-k-equal-sum-subsets/

* **Both Rounds were Elimination Rounds.**

DAY 2 :

Round 1: Technical

Platform: Google Meet, Collabedit

Test duration: 1 hour

The interviewer introduced himself and asked me to do the same.

Computer Science Fundamentals

- The interview began with OOPS concepts. I was asked to explain all OOPS

  concepts with real-life examples.

- Then the interviewer asked me to explain difference between Multiprogramming,

  Multitasking, Multithreading & Multiprocessing Environments.

- Why multithreading is better than multiprogramming ?

Programming Problems

- Find the maximum element in the stack.
  - Approach 1: Using an auxiliary stack in O(1) time & O(n) space

    https://www.geeksforgeeks.org/design-and-implement-special-stack-data-structure/

  - Approach 2: Using a variable in O(1) time & O(1) space

    https://www.geeksforgeeks.org/find-maximum-in-a-stack-in-o1-time-and-o1-extra-space/

  - Follow Up: Given a stream of characters, return the one with the maximum frequency

    The above 2 approaches can be used here along with maintaining a hash of characters.

- Given an unsorted array, find the minimum length subarray sorting which makes the complete array sorted.

  Problem Link -
  https://leetcode.com/problems/shortest-unsorted-continuous-subarray/description/

  Solution Link -
  https://github.com/ap0996/ImportantAlgorithms/blob/master/gfg/12)Stack/13)Shortest%20Unsorted%20Subarray

- Given a list of coins, find the unique number of ways to make a sum k. Coins can be used infinite number of times. The order of coins doesn't matter.

  https://www.geeksforgeeks.org/coin-change-dp-7/

More Computer Science Fundamentals

- What are deadlocks? Mention the necessary conditions for it.

- Describe Preemptive & Non-preemptive Scheduling

- How priority is decided in Priority Scheduling Algorithms?

Finally, The interviewer asked me if I have any questions for him.

I asked him about the kind of technologies and responsibilities I would come across as a fresher.

Round 2: HR

Platform: Skype

Test duration: 30 minutes

- The interviewer introduced himself and asked me to do the same.
- I had mentioned 3 projects in the resume, he asked me to explain all of them briefly.
- One of my projects was based on Natural Language Processing and we had a detailed discussion of that project. He asked me how I developed the machine learning model and how could I improve its efficiency.
- Then he asked me about the experiences and challenges I had while I was doing an internship in a startup last year.
- Then he asked me about the challenges I had while working in a team & how I overcame them?

Then he asked me if I was flexible in working at any location in the country or not?

I said yes, but if given the choice I would prefer Delhi NCR.

Finally, The interviewer asked me if I have any questions for him.

I asked him about the work culture in Accolite.

TIPS -

- Understand the questions, in case of any doubts clear them before beginning with the solution. Try to consider as many corner cases as you can.
- Thinking Out Loud.
- Computer science fundamentals are equally important. Prepare operating system, DBMS, OOPS & Networking thoroughly.
- One should have detailed knowledge of their projects.
- Hope for the best & prepare for the worst.

RESULT - Selected

For any queries, contact: [*aanchalpatial.mca18.du@gmail.com*](mailto:aanchalpatial.mca18.du@gmail.com)

GOOD LUCK !!