Tushar Harsh(M.Sc 2020-22)

Cvent Interview Experience (Internship + FTE)

(Round 1&2 held on 14th August, 2021)

Round 1: Aptitude Test (08:30AM-09:30 AM)

30 questions to be done in 60min. Aptitude related questions and topics like C/C++, Java, OOPS, DBMS related questions.

This was the MCQ round. The level of aptitude questions were mostly easy with some questions being medium level. No time related issue and overall basic knowledge required to get through this round.

45 students made it to Round 2.

Round 2: Coding Test (11:10AM-12:10PM)

Platform - Codility

Question was related to finding all possible cells in NxM matrix where new retail shop could be opened so that the distance between the shop and each house is <= K(given) . Further 0 in cell represented an empty plot and 1 in cell represented house. We had to write a function for it. Example -

A = [[0,0,0,0],

[0,0,1,0],

[1,0,0,1]]

K = 2, Answer is 2.

My approach was :-

1. to make pair of all the indices of 1s and store them in a vector of pairs v and initialise count to 0.

2. for each cell of NxM area as (i,j) do

a. use a flag and set to 0

b. if cell contains 0 then do

i) for each element in vector v as x do

if(abs(x.first – i) + (x.second – j)>k) then set flag = 1 and break

ii) if flag = 0 then increment count

3. count contains the desired result

16 students got selected for further rounds.

Next was 2 Technical interviews and CCAT, F2F on Zoom held on 16th August, 2021

Round 3: Technical Round 1 (01:15PM – 02:15PM)

Interviewer – Mohit Arora(Lead Software Engineer)

He started with his introduction and asked me for the same. I was then asked about how much work I did on Java and then while framing the question and providing the codility link he asked the concept and working of OOPS. I answered the same and was further asked to tell difference between polymorphism and encapsulation. He then gave my coding question for this round.

Q) Given an array and a target sum give the indices for the first pair of numbers whose sum was equal to target sum.

I told him the basic approach of sorting the array and using two pointers. He asked me if we want to get down the time complexity. I told him that we can use hashing approach he then asked me few things regarding this, how to handle duplicates and how it was time efficient and compare with first approach. He then told me to code it down and give a dry run for sample.

He then asked me 2 puzzles.

First was given 4 points place them such that each point is equidistant from each other. I wasn't able to figure the solution in one go but while saying my approach he gave me hint that we can think of putting them in any dimension then I told him that by using pyramid and placing points at vertices can give us solution.

Second puzzle was, a piece from the cake was eaten and in which way should we cut it to get exactly two parts. Shape wasn't given so a generalised answer was expected. I told him that cutting cake horizontally can be the answer.

He then asked me concept of indexing in databases and how it made performance of database efficient. He then asked if I knew about joins and types of joins available, tell the difference between inner and outer join. On answering I was given a query related to joining of two tables. I misinterpreted the question due to which I wasn't to get actual answer but corrected later. He said that his set of questions was done and if I had any.

I asked for his experience and things to expect from fresher pov. Further I asked for things I needed to work upon to which he replied.

10 students made to round 4.

Round 4: Technical Round 2 (05:15PM – 06:00PM)

Interviewer – Anand Nigam(Director Of Technology)

He asked me where I did my graduation from and what I was currently pursuing. He then shared a codility link and asked me a binary tree question.

Q) Given binary tree and target sum find whether there exists a path whose sum is equal to target.

A small discussion went around it and then he asked me another question related to it.

Q) Find all possible root to leaf paths in binary tree.

I told him a recursive approach and he told me to explain via coding. I took some time for it and then explained the working of code and then dry run it on sample. In depth discussion was done. He then said that he was done with his question and if I had any.

I asked why only one topic related question to which he said that quantity of questions didn't matter but the thinking and approach is what's required. He then told few things asked by me but denied any feedback.

7 students made to the final round.

Round 5: CCAT (07:00 PM – 07:40PM)

This round is taken by Cvent instead of the general HR round in the end.

HR was there in meet and asked how my day went by. She then shared link for test.

Two parts:

1st Part - 22 minutes - 50 MCQ's - Aptitude (problem solving & Calculations)/Logical Reasoning/English/Analytical skills….There is no negative marking, so attempt all questions.

2nd Part - Personality based questionnaire - No Time Limit….no negative marking. (still try to do in around 15min)

Very easy questions in 1st part just don't get stuck in one if encountered. Personality based ques some were repeated so be careful while answering.

All 7 students bagged Intern + FTE offers.

Suggestions/Tips

1) Have fundamentals and thinking strong of CS and aptitude.
2) Read the question again as sometimes it clicks the correct thinking for approach.
3) Ask and clarify with interviewer if any before proceeding.
4) Don't get stuck at one place at all. Keep thinking for answer from different scenarios.
5) Keep saying whatever approach your thinking and most importantly.

*Work **smarter** not harder.*