

INTERVIEW EXPERIENCE – MERILYTICS

FTE (Year 2022, HYBRID)

Senior Technical Analyst (Shivani Mishra)

Online Test (60 min) - offline

Resume shortlisting was there.

Eligibility Criteria for online test : 6.5 CGPA

There were around 40 questions and the duration was 60 minutes. A There was negative marking for wrong attempts. You cannot revisit a section once you do a final submission. You can switch between the questions of a particular section.

It has 3 sections: MCQ (multiple and single correct)

1. Aptitude Section : Duration(20 minutes)

There were 15 questions from topics like **time and work** , **train problems** , **profit and loss** ,**allegation and mixture** . Problems very easy but time consuming .

2. Computer Science Fundamental : Duration (20 minutes)

There were questions from subjects like **OS,DBMS,C++,JAVA** Most of the questions were about predicting the output and basic fundamentals. Sql queries and commands were also asked.

3. DSA fundamentals: Duration (20 minutes)

Trees, time complexity, BST, arrays, strings, recursion etc .

Only 6 students were shortlisted after this round.

Round 1 (Technical) (2 hours 05 mins) - online

After asking for introduction –

Q tell me about your pure dynamic database project?

Q how many tables and relations you have build? How are they internally related? how would you like to scale your project ?

Q write dbms queries for joins, update, delete, trunk, ?

Qhow many joins are there? How have you implemented that in your project?

(I showed him my entire project and explained the functionalities of each modules and how the things are working and told him about data flow diagram)

Q write the queries and give examples of revoke command?

Q) What is inheritance ? explain with examples?

Q What challenges did you face in this (a live web app) project?

Q How did you host it and how did you handle the database at remote server?

Q What are your future goals for this project?

Q What was the need of using Google drive API?

Q Difference between procedural programming and object oriented programming and when should one use procedural programming?

Q Polymorphism and its types.

Q Where did you use OOPS concepts in your projects?

Q what are trees? Binary trees? What are the operations you can perform? Time complexity ?

Q write a code of binary tree from scratch and perform all the operations and write the code of all the operations ?

Q what are strings?

Write the algo of strings? Think of all the operations which you can perform on the strings and write there code from scratch.

(in between he modified my code by adding few extra conditions and bending the logics his own ways in order to test my grasp on DSA concepts)

Q why should I select you as you come from non technical background over BTech students?

Q what are your hobbies? As you mentioned ethical hacking? what is phishing and its types? How is it performed?

(I gave him the live demo and he got impressed)

Q how can you perform security hacking?

Q tell me something about penetration testing ?

Q Reverse a doubly linked list in groups of given size

<https://www.geeksforgeeks.org/reverse-doubly-linked-list-groups-given-size/>

(I could do only 3/4 of the solution and he stopped me)

Interviewer: is there any questions for me ?
(I asked 4 questions about the company and his work experience)

And the meet ended on a positive note.

Round 2 (Technical + HR) (1 hour 25 min)- online

After asking for introduction –

Q what is joins? Write the query?

Q what is polymorphism? Its applications?

Q what is inheritance its types and its applications?

Q explain your database project in details ?

Q what did you learn from your data analytics internship?

Q basic excel operations?

Q Explain your web dev projects in detail.

Q What tech did you use for this project and why?

Q How many layers are there in your web app if I consider UI as the top-most layer?

Q What is the need of middle layer in a 3-tier architecture?

Q What practices did you use to reduce the loading time of UI?

Q How pagination actually reduced loading time?

Q Other project specific questions like how are you sending emails etc.

Q What are try, catch and finally blocks in Java and their use?

Q What are throw and throws in Java?

Q Normalization and its types with examples.

Q Disadvantages of normalization and what to do in that case?

Q he gave me a situation and told me to create tables and write all the queries and perform joins and explain the data flow .

Q What kind of constraints do you know about in DBMS?

Q Unique Key, Primary Key and their differences.

Q What is Cursor, Trigger?

Q What are the pillars of OOPS?

Q Explain polymorphism.

Q Abstract class, Interfaces, their differences and real world examples using them?

Q Reverse a Linked List in groups of given size.

<https://practice.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-given-size/1>

Puzzles

He asked me 5 puzzles all were completely unknown and easy to medium-level puzzles. as I had practiced puzzles from gfg multiple times so I was very excited about it. I answered those puzzles by giving atleast 4 solutions to puzzles.

HR questions:

Q What do you expect from your first job?

Q What are your areas of interest?

Q What are your future career plans?

Q What are your thoughts about teamwork?

Q How did you deal with the conflicts that occurred while working in a team or have you ever done any team building practice?

My Tips / Suggestions:

1. Whichever project you've added in your resume, have a deep and proper understanding of it.
2. The flow of the interview is decided through your resume also, so have knowledge about each and every word you've written there.
3. Confidence is really the key.
4. Be honest with the interviewer. I kept telling them that I know this topic till this limit whenever they asked about an unfamiliar topic (obviously you can't ignore the essentials of Core CS subjects)
5. Asking questions at the end is really essential, so always prepare beforehand.
6. PREY FOR THE BEST, PREPARE FOR THE WORST AND EXPECT THE UNEXPECTED.

