

INTERVIEW EXPERIENCE 2022

SOFTWARE ENGINEER 1

Hello, this is **Hariom Rajput**, I am an MCA CSE student at the National Institute of Technology, Warangal batch 2020-23. I interviewed for an SDE-1 role at MAQ Software.

The recruitment process included 4 rounds in total as follows:

Round 1: Online Test

Round 2: Technical Interview

Round 3: Technical Interview

Round 4: Technical + HR interview

Eligibility Criteria: 6+ CGPA and 60%+ in 10th and 12th, No active backlogs

Round 1: (Coding Round)

- ➤ Their test was conducted on a special platform which we have to install on our pc before giving the test.
- ➤ There was only one section which comprised 4 coding questions all based on dynamic programming.
- All are of string and array.
- > But some restrictions were there given below-
- you can't modify the function signature. Also, you can't write anything out of the given function.
- You can't use Standard Template Library.
- ➤ There was space for writing the code, in that space, you can write only.

```
int solve (int num ) {

// here you can write your code

// here you can write your code

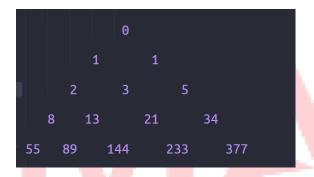
throw solveNotFound(Exeption e);

}
```

- For example, You can write only from line 4 to line 7.
- I don't know the exact question.

Round 2: (Technical Round)

- A very cool guy came to interview me and asked me to introduce myself. After that, he started with OOPs concepts.
- What is polymorphism, encapsulation, and inheritance, what is the destructor, why destructor is important, and what is a memory leak?
- ➤ How many types of storage classes are there, and explain them.
- ➤ After that, he jumped on DBMS and asked some questions on ACID property, Normalization, property of all normal forms, and different types of keys, what is a deadlock in DBMS.
- After that, he told me to write 4-5 SQL queries related to JOIN, subquery and union.
- After that, he told me to create a program that will give the output like this-



- This means the Fibonacci series is in pyramid form.
- After that, he gives me another coding question, in which he gave me a string and told me to print the last character of each word.
- After that he asked me, can you write a code create a BST and perform all the operations on it? I said yes.
- it was of 45 minutes approx, I gave all the answers according to my ability and I was selected R2.

Round 3: (Technical Round)

- ➤ Here the interviewer was quite strict. Neither did he take my introduction nor did he see my resume. He just came and opened his editor.
- > He gave a code snippet of JAVA and asked what will the output of this code.
- Code was based on the property the reference variable of the Parent class is capable to hold its object reference as well as its child object reference.
 - Why this output is coming? Why this is happening?
- After that, he gave me one coding question which was again on the string. and he told me to write a code that subtracts two numbers without using arithmetic operators. You can't use any, any, any operators anyhow.
- ➤ I spent 15 minutes on this, but I could not code it. But I told him the idea and the Idea was we have to use a bitwise operator.

➤ This round was of 35-40 minutes, I think. And after this round, I was a little worried about whether I would get selected or not for the next round.

Round 4: (Technical Round + HR)

- He asked me to introduce myself.
- Then he gave me a GFG Puzzle 18 | (Torch and Bridge).
 I solved it and then he asked me the idea behind the approach.
- After that he said, tell me something which is not mentioned in your resume.
- > Tell me about your family. where do you see yourself in the future?
- After that, he told me to write a program for the Fibonacci series.
- ➤ Then, Print the Fibonacci, where the number contains more than two digits would we reverse the original number.
- Then, if the number contains more than two digits, if it is palindrome then add 1 to that number and then reverse it and then print the series. Else print the number as it is.
- After that, he came on to the DBMS and asked 8-10 queries related to JOIN, UNION, subquery, and basic SELECT operations.
- As I mentioned JAVA in my resume, so he asked some questions like Final, Finally, Finalize, static keyword, and static block. When finalize method will invoke? What things JVM automatically creates in a JAVA class, if we are not creating explicitly?
- And after 15-20 minutes finally, HR will told me you are selected.

My POV:

- First and **VVIMP** tries to maintain your CGPA, try to keep it **above 7** if not then at least above 6.5. Otherwise, you will be deprived of many opportunities.
- ➤ Practice coding questions from **GFG** and **Leetcode**. Practice all standard questions from **Striver's SDE sheet** and **450 DSA sheet**. it will cover all the patterns. it would be enough. You can do more if you want.
- Practice behavioral questions, don't take them lightly.
- Always be polite to your interviewer.
- > Do all **basics** of C language. It is very important.

Special thanks to Amrit Pandey (MCA Placement Representative) for his hard work and efforts.

At last, I would say that apart from all this your selection will depend on your interviewer and on your luck. And never give up, "Jo bhi Hoga, Achha Hoga".

Wishing you All the best!!!