

Interview Experience - Locofast

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Online Assessment - 14 Sept 2022 (9AM - 11 AM)

Duration - 1 hr 58 min

- One sql query
- Two DSA questions -
 1. Given N interns, the intern number of each intern changes every day according to the equation - $Day(i) = Day(i - 1) + 5000 + i$ over the next 50 days with the initial intern number of k^{th} intern as $5000 * k$, you are given an intern number and you have to return to which intern it belongs to.
 2. <https://www.geeksforgeeks.org/total-count-of-sorted-numbers-upto-n-digits-in-range-l-r-magnificent-necklace-combinatorics-problem/>
- Questions on Javascript, html, css
- Logical Reasoning, aptitude related questions

Technical Round 1 - 14 Sept 2022 (3PM - 4PM)

- Tell me about 1 of your projects
- One DSA question - <https://www.geeksforgeeks.org/longest-sub-array-sum-k/>
- How many tree traversals are there?
- Minimum number of nodes in a binary tree?
- What is OOPS?
- What is Polymorphism? What are the types of Polymorphism?
- One C++ output question

- JavaScript Questions -

- `==` vs `===`
- Output of `null == undefined`
- Output of `null === undefined`
- Output of the following -

```
(function(){ var a = b = 5; })(); console.log(b);
```

Technical Round 2 - 14 Sept 2022 (4:15PM - 5:15PM)

- Tell me about your PCMart project (The top project I have mentioned in my resume)
- Have you deployed this project or can you walk me through the code?
- How did you handle Authentication?
- What is JWT? What is Salt used in Password hashing?
- What did you use for Backend?
- One Coding question - Suppose you are given a string `str = "dog dog cat cat dog"`, you have to count the number of alternate pairs (number of words that occurring together and more than once), since "dog" and "cat" are occurring together and 2 times each, the output is 2.
- What are ACID Properties?
- What is Durability in the ACID properties listed above? Why would you need it?
- What is dirty read in database?
- Do you know the concept of Logging?
- 1 Puzzle - <https://www.geeksforgeeks.org/puzzle-set-35-2-eggs-and-100-floors/>

Technical Round 3 - 15 Sept 2022 (11:45AM - 1PM)

- Tell me about yourself
- What Real life problem do you want to solve? (Mentioned in my introduction)

- Tell me about 1 of your projects
- If I wanted to use MySQL instead of MongoDB, what would be the MERN Stack called?
- What is Redux?
- What is Prop Drilling?
- What is a store in Redux? Can there be multiple stores in Redux?
- What is `Redux-thunk` ? Why it is needed?
- What is native way of solving the problem of prop drilling in ReactJS?
- What are Hooks? Have you used any hooks?
- What are you more comfortable with Flexbox or grid?
- What is difference between `justify-content` and `align-items` ?
- Have you used any CSS preprocessors like SASS, SCSS, LESS etc?
- What have you used in backend? What is REST?
- What are the 2 REST methods for handling the update operations?
- What is HTTP?
- What are the seven layers of OSI Model?
- What is TCP? On what layer of the OSI Model it operates?
- What method does TCP use to establish a connection?
- Two DSA questions -
 - <https://leetcode.com/problems/string-compression/>
 - <https://leetcode.com/problems/fizz-buzz/>
- What are prefix expressions? Given an expression convert it to a prefix expression
- What are postfix expressions? What are they used for?
- Questions on Git commands -
 - Git pull vs fetch
 - How would you switch to a branch?
 - How would you delete a branch?
 - How would you delete a commit?
- What is Hoisting?
- What is temporal dead zone?

- What are closures in JavaScript?