

## **Lead Software Engineer - Frontend**

R1 - Front End Fundamentals

R2 - Problem Solving

R3 - Engineering Excellence (Bar Raiser)

R4 - Hiring Manager (Technical Fitment)

R5 - HRBP (Values & Culture Fit)

### **R1 - Front End Fundamentals**

Pixel Perfect HTML & CSS Prototyping

Creating tooltips using HTML/CSS.

Implement File/Folder Viewer.

Implement Debounce

explain async vs defer, CDN caching, box-model and box-sizing, bubbling, stop propagation, event delegation

Javascript - fundamentals to advanced concepts

Javascript frameworks & Libraries - React/Angular

Understanding of Server side/Client side rendering/Micro Frontends architecture

CI/CD integrations for better developer experience

Infra basics - CDN, caching

Frontend security - XSS, CSRF, Encryption/Decryption

Accessibility best coding practices

Cross browser understanding & Responsive design

Networking concepts

Web Optimisation

#### **Sample Questions:**

Implement Promise?

Implement cancellable promises?

<https://medium.com/codex/running-concurrent-requests-with-async-await-and-promise-all-daaca1b5da4d>

<https://medium.com/sessionstack-blog/how-javascript-works-event-loop-and-the-rise-of-async-programming-5-ways-to-better-coding-with-2f077c4438b5>

Performance optimization, Security

Explain Display Property, Position property, box model, box sizing property

Redux, Virtual DoM, DoM, HOC, Websockets, Promises, Async program with setTimeout

Creating grid in CSS

Creating Polyfill

### **R2 - Problem Solving**

Problem solving questions - Medium to High complex programs.

Build an UI component based on the requirements provided.

CSS only problem solving questions.  
Designing a flexbox

### **Sample Questions:**

Write a program to find whether a given number is a palindrome or not?

<https://leetcode.com/problems/valid-anagram/>

Write a "mul" function.

Print x.value using displayValue function

Write sample extension logic : Shape -> Circle/Rectangle

EventListeners on Dom element

String manipulation problem, JSON traverse problem.

Reverse string by word, Multiplication function

### **R3 - Engineering Excellence (Bar Raiser)**

Build a component design, how it connects between backend / frontend.

Explain/code the authentication mechanism, components design, API response design & caching mechanisms for highly scalable & performant UI based on the requirements provided

Advanced usage of developer tools

Understanding of Internationalization & Localization

Understanding of the non functional aspects of code. i.e scalability, modularity and performance

Design patterns & code optimizations

Programmatic identification of impact areas of code to reduce bugs and importance of test coverage

Code documentations

### **R4 - Hiring Manager**

Candidate interests in our tech stack

Team level fitment questions - Spends most time in coding and not on leading/managing people

Understanding of Agile methodologies

Handling of Time sensitive projects

Be able to do tech design for small to medium epics

Mentoring team members

Understanding of extra mile efforts/initiatives to delight customers & for frontend architecture at app level