Flipkart Engineering

Flipkart Engineering is making ecommerce happen in India. We are building reliable and scalable infrastructure to handle all of Flipkart's ecommerce business.

Flipkart Engineers bring in cutting-edge approaches to solve business problems, create architecture & design to realize the solution through coding and testing. This involves working with designers, business analysts and product managers, as it is not a lone job cracking the code. What we respect the most is our engineer's ability to find the best way to approach and tackle a problem, and the way they demolish and build like they please. Engineering at Flipkart is an opportunity to solve never been solved problems in ecommerce domain and by working with the domain leader, you will get a shot not only in innovation but also in defining the industry.

The high focus on Impact and Ownership gives freedom to experiment and innovate. The ability to see what your code does to the business is a rare experience, add to the fact the impact of it is felt by your friends and family in India - the experience is extremely gratifying.

What UI Engineers @ Flipkart do?
- Build next-generation web applications which are efficient, reusable front-end abstractions and systems.
- The scale at which flipkart operates and grow every year is a challenge for our systems. UI is not different and we make sure our applications could handle that traffic.
- We are a fast moving company and we try new things and fail fast. We build frameworks which could help us go to market fast. It's not just new features that we build but we make sure we build reusable components and libraries which help us deliver faster.
- Quality and availability are utmost important to us. We make sure all our releases are bug free and performant. The responsibility of quality is with developers and to make things easy and predictable we automate these processes.
- Explore and design dynamic and compelling consumer experiences.
- Work closely with designers to implement versatile front-end solutions while embracing emerging standards and pushing the limits of what a browser can do.
- Actively participate in design and code reviews to build robust applications and prototypes.
- Interact with other team members to passionately collaborate with teams across Flipkart.
- Analyze system function and performance requirements to support design concepts.

Machine Coding

You will be given a small problem to implement. You are expected to submit a working solution in given time (typically 2 hours).

You will be evaluated based on:

1. Correctness and completeness of the solution
2. Your understanding of the problem statement
3. Code design and technology choices
4. Feature prioritization
5. Technology choice

Problem Solving

This round will focus on your problem solving skills and knowledge of common data-structures. You will be given a problem statement (real-world or algorithmic) and you will need to provide a solution in the form of pseudo-code.

Expectations

1. Ability to identify problem type and apply conventionally known techniques to solve them.
2. Usage of optimal Data Structures for the problem statement
3. Good understanding of Time and Space complexity
4. Identify edge cases and boundary conditions of the problem
5. Ability to test the correctness of solution

Domain knowledge (UI Tech)

You will be asked questions based on the projects and technologies that you have worked on.

Expectations

1. You are expected to know the fundamentals of frameworks and platforms you've worked on (mobile, desktop etc) and the tools you have used.
2. Knowledge of Javascript (and at least one more language), browser internals and basic understanding of the network stack.
3. Fundamentals of handling asynchronous code (XHR, Promises etc)
4. Understanding of common design patterns followed in front-end projects.
5. Basic awareness of application security practices.
6. Understanding of basic deployment techniques for front-end projects.

Good to have

We would love to hear you talk about:
1. Latest trends in front-end technologies.

2. Engineering practices - Deployments, Release management etc
3. Challenges faced or peculiar bugs that you have ran into.

The purpose of this round is to understand your comfort with the tools you are currently working on and your knowledge about issues pertaining to them.
(Note: It is encouraged to mention the technologies and tools that you are comfortable with in your resume or to the HR. This will help us assign the interviewer with relevant experience)

Design and product sense

You'll have to define a product and prepare it's requirement document. Based on this document, you have to define a high-level architecture for this product considering a variety of factors we face in the tech domain on a day-to-day basis. This will be a very open-ended conversation about how we build complex features or design entirely new products from scratch.

Expectations:

1. Ability to design and plan a product/feature independently
2. Prioritisation of features/tasks and estimation
3. System design and architecture for this product's implementation
4. Design APIs and/or interfaces for the various pieces
5. Ability to go deep into some features and look at factors like product decisions, limitations etc amongst many others