

SHUBHAM SINHA

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Professional Experience

Walmart Labs

Software Development Engineer II

Bangalore, India

August 2018 – Present

- Analysed requirements and designed a GIT based config solution, with hierarchy management and hot reload. This project helped move all the configurations as a separate bundle changing which should not cause any downtime for the application.
- Analysed requirements, planned and designed the Global Integrated Fulfilment's BFF(Backend for Frontend). The Go project handled all the heavy logic that used to be previously done in the UI code. This project used Redis for shared caching of Order related metadata, Walmart Store Business details, etc. This project exposed the GraphQL queries for fetching the information unlike the microservices architecture. This also used Google's RPC protocol for dynamically fetching the configurations.
- Developed an Android Library for supporting Offline calls and caching using Room Database(wrapper on SQLite) and Work Manager. This helped to run the Global Integrated Fulfillment's application even without network. This is completely resilient supporting calls to be performed even when the application crashes or the device restarts.
- Developed a Logger Library for Golang which features the log rotation being handled internally without running any CRON job or any other system process.
- Analysed requirements, planned and designed the Global Integrated Fulfilment's Login Services architecture. The Spring Boot project handled the authentication and authorization of associates of 7000+ stores across the globe. It also served as a way to serve the UI package.
- Analysed requirements, planned and designed the Global Integrated Fulfilment's Bootstrap Services and the schema of the database being used in it. The Spring Boot project handled the access of essential data such as environment, market, etc. based on the store number and country for 7000+ stores across the globe. It then served as a single source of truth for the UI and for routing from store to ring.
- Implemented the UI for Packing and Shipping feature for warranty registration of items before shipping it to the customers using React Native and Redux to run on handheld devices. This solved the problem of customers often receiving items without warranty.

Walmart Labs

Summer Intern

Bangalore, India

January 2018 – July 2018

- Implemented the Packing and Shipping features for SFS(Ship from Store) in Global Integration Fulfilment system using React Native and Redux to run on handheld devices. This application helped store associates to work efficiently during packing and shipping.
- Implemented the Pack Monitoring features in Global Integration Fulfilment system using React Native and Redux to run on handheld devices. This application helped store associates to know the status of the orders over the past 7 days.
- Developed a Redux Middleware to change the flow of the Global Integration Fulfilment application in case of deep linking from one application to the other.
- Developed a utility class for React Navigation which provides the features that React Navigation fails to provide directly like passing the route name to the go back function, getting the current route name at any place, etc.

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Summer Intern

Bangalore, India

May 2017 – July 2017

- Implemented the integration of barcode scanner in Global Integration Fulfilment system using Angular 1.x to run on handheld devices.

- Designed and implemented Order Manager's Utility Panel frontend using Angular 1.x. Finalized the mock up and coded features to improve the way the Order Manager team reprocesses the failed messages.

Technical Skills

Golang, Java, C++, Java, Spring Boot, JavaScript, React, React Native, Redis, GraphQL, GRPC

Education

Birla Institute of Technology, Mesra

Bachelor of Engineering, Information Technology. CGPA 7.94/10

Ranchi, India

June 2014 – July 2018

Activities and Position of Responsibility

- Problem Setter and Tester at Codechef and Hackerearth
- Secured Rank 13 in 2017 and 94 in 2016 at ACM-ICPC Asia Amritapuri Multisite Regional Contest

Ratings in Competitive Coding

Site	Rating	Profile Link
Codeforces	1939(Division 1)	http://codeforces.com/profile/sinhashubham95
Topcoder	1310(Division 1)	https://www.topcoder.com/members/sinhashubham95
Codechef	1769	https://www.codechef.com/users/sinhashubham95
Hackerrank	1860.39	https://www.hackerrank.com/sinhashubham95
Hackerearth	1440	https://www.hackerearth.com/@sinhashubham95
Spoj	World Rank 589(43.3 Points with 372 Classical Problems Solved)	http://www.spoj.com/users/sinhashubham95