

# RAHUL SHARMA

[rahul.sunybuffalo@gmail.com](mailto:rahul.sunybuffalo@gmail.com) | +1 (716) 306 - 9530 | [Portfolio](#) | [LinkedIn](#) | [Github](#)

## EDUCATION

**University at Buffalo, The State University of New York**  
Master of Science, Computer Science

Anticipated February 2, 2023  
GPA: **3.56 / 4.0**

**Jaypee Institute of Information Technology (JIIT), Sector - 62, Noida**  
Bachelor of Technology (Hons.), Computer Science & Engineering

August 2015 - July 2019  
GPA: **8.1 / 10**

## COURSES

Distributed Systems, Blockchain Applications, Database Management & Query Languages, Algorithms & Data Structures, Operating Systems, Software Security

## TECHNICAL SKILLS

**Primary:** Javascript, Typescript, React.js, Redux, Node.js, Web3.0, MongoDB, SQL, Kafka, HTML5, CSS3, LitElement

**Secondary:** Redux-Toolkit, Truffle, PWA, Nest.js, Socket.io, Webpack, ESBuild, Web Components, ES Modules.

**Tools & Deployments:** RabbitMQ, Docker, AWS EC2, AWS S3, Heroku, Codeship, Bitbucket Pipelines, Netlify, Infura

## WORK EXPERIENCE

**Tatari Inc., San Francisco, USA**

**Software Engineer - Frontend Intern** | June 2022 - August 2022

- Worked on building a Multi Week Dashboard using React.js and its state management using Context API and Redux.
- Recommissioned Version Notifier using Webpack to notify new updates to users.
- Implemented route-based code-splitting along with compression to reduce production bundle size by 60% on average.
- Incorporated webpack split chunks to optimize the first contentful paint value by 80% from 2.5 sec to 0.5 sec.
- Enabled hot-module-reloading using react-refresh, webpack-hot-middleware and worked on module federation.

**Squareboat Solutions Pvt. Ltd. Gurugram, India**

**Software Engineer (Full Stack)** | October 2020 - July 2021

- Developed consumable APIs using *Nest.js* & reusable web components/user dashboards using *React.js* and *Next.js*.
- Worked on central user and product state management, API interceptor in React using Redux and Redux-Toolkit.
- Mentored FE team on efficient use of React.js to create scalable components & led hiring process for Full Stack Roles.

**Fundwave, New Delhi, India**

**Software Engineer (Full Stack)** | February 2019 - March 2020

- Collaborated with fellow developers to revamp existing *Transaction Flow*, develop *Investment Summary Dashboard* to track and visualize investments. Implemented *Bank Reconciliation System* to bulk import transactions.
- Improved overall WebApp performance by implementing it as a *Progressive Web App (PWA)* and used improved *caching strategies* for assets & APIs. Delivered brown-bag sessions & tech talk on MongoDB, React.js Vs Angular.js, Redux vs Redux-Toolkit.

## PROJECTS

**FrontChain (FT Marketplace - BlockChain) \*under Blockchain Applications**

May 2022

Built FT marketplace to buy/sell reusable FrontEnd Components using technologies, *Solidity*, *Web3.0*, *React.js*, *Node.js*, *Truffle*, *Infura*, *Metamask*. Under **Phase-1**, worked on designing Smart Contract and integrating Web3.0 along with React & Truffle to connect to underlying functions in deployed SC on Ganache (Local Blockchain). In **Phase-2**, moved transactions within FrontChain to use custom **ERC20** Token - FrontCoin along with Airdrop feature & deployment on Ropsten.

**Cricket Information System (Decentralized PubSub) \*under Distributed Systems**

December 2021

Built 2 decentralized Publisher/Subscriber applications using technologies, *Kafka*, *React.js*, *Node.js*, *MongoDB*, *WebSTOMP*, *Socket.io* & *RabbitMQ Message Queue*.

- **Project-1:** Created 3 decentralized publishers interacting with 3 brokers to publish and (N) consumers consuming resources. Broker communication was achieved using *Message Rendezvous* and message passing was achieved via RabbitMQ.
- **Project-2:** Converted all 3 broker nodes in *Project-1* to Kafka Broker Nodes and implemented Kafka Consumers to interact with broker nodes.