

# RAHUL SHARMA

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## EDUCATION

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

Expected December 2022

**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:** Node.js, C, C++, Javascript, React.js, Web3.0, MongoDB, SQL, Kafka, Solidity, HTML5, CSS3, Python (Beginner)

**Secondary:** Truffle, PWA, Nest.js, Socket.io, Redux, Redux-Toolkit, Webpack

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

## WORK EXPERIENCE

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

**Software Engineer - L1** | October 2020 - July 2021

- Developed consumable APIs using *Nest.js* & reusable web components/user dashboards using *React.js* and *Next.js*.
- Mentored Front-End team on efficient use of *React.js* to create scalable components.
- Led hiring process for Front-End & 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*.

## INTERNSHIPS

**National Thermal Corporation Limited (NTPC)**, Dadri, India

**Information Technology Trainee** | June 2018 - July 2018

- Implemented *Powerplant Protocol Portal* using PHP, MySQL & Javascript; Digitized trivial paper-driven protocol process and got appreciated by a Letter of Recommendation from acting AGM NTPC.

## 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.

**Just JSON Formatter** [Live Demo](#)

July 2021

Worked on JSON formatter to validate and display JSON in expandable/collapsible tree format using *Javascript*.