

Rajat Singh

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EDUCATION

Jaypee Institute of Information Technology
Bachelor of Technology in Computer Science Engineering

Noida, India
July. 2015 – May 2019

EXPERIENCE

HDFC Securities

Bengaluru, India

Sr. Software Engineer: Fullstack

Feb 2024 - Present

- **Led a team of 12 developers** using Agile methodologies to ensure efficient development and collaboration.
- Building a **trading platform** (<https://investright.hdfcsec.com/>) with advanced data analysis features using **polyrepo architecture** and a component library. Designed the **HLD** and **LLD** to define the system architecture in detail, leveraging **Next.js**, **React.js**, **WebSocket**, **Tailwind CSS**, and **Tanstack React Query**.
- **Boosted system performance** and resiliency by implementing fault tolerance mechanisms and utilizing back-off strategies with Dynatrace, enhancing system reliability and reducing downtime by 30%.

Slice

Bengaluru, India

Software Engineer II: Fullstack

Nov 2022 – Jan 2024

- Contributed to the Core Frontend Platform Team, addressing key scalability challenges.
- Solved operational scalability problems across **KYC ops**, **Credit Ops**, **Card ops**, **FinOps**, etc
- Migrated multiple legacy web apps to a **monorepo** using technologies like **ReactJS**, **Redux Toolkit**, **React Turbo**, **React Hook Forms**, and a React component library based on **Atomic design principles**.
- Enhanced the Bulk Operation service's efficiency by implementing a **rate limiter**, **circuit breaker** and eradicated memory leaks which increased its file handling capacity from a **from 0.2M to 10M+ records**. This optimization boosted the slice's Gross Transaction Value (GTV) from **5 cr to 40 cr**.
- **Reduced costs** by replacing a monolith service with a **NestJS** based Orchestrator to coordinate microservices.
- Addressed tech debts by writing **Unit testing**, **migrating AWS ECS to EKS** through Terraforms, improving observability with **Sentry**, **Grafana**, and **Prometheus**, and migrating **MongoDB to PostgreSQL** and resolved Security issues.

Software Engineer I: Fullstack

Sept 2020 - Oct 2022

- Led **end-to-end development** of an **in-house web app** using React-Redux, demonstrating full ownership.
- Developed an **Role Based Access Control Service**, (using Nodejs) granting user access based on specific roles and permissions, dynamically rendering React components following responsive design.
- Created a **Bulk Operation Service** (using Nodejs) to efficiently process large volumes of data from files along with its integration with **AWS CI/CD** pipelines using **CDK** and **Terraform**.
- Contributed to a Task Operation Service with **Node.js** and **Kafka**, improving real-time task distribution and boosting team productivity.
- Automated KYC processes, **reducing processing time by 70% and workforce requirements from 300 to 120**, by using auto loan decisioning, auto-verification, and auto-completion.
- Addressed diverse tech backlogs, including **AWS EC2 to ECS** migration and security enhancements.

Mountblue technologies

Bengaluru, India

Software Developer

May 2019 – Aug 2020

- Developed a CRM web application using **ReactJS**, with backend services built on **MongoDB**, **Node.js**, and **Express**, tailored to meet the specific needs of individual teams for optimal performance and scalability.
- Executed seamless **deployments using AWS and Jenkins** ensuring the application's availability and reliability.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Java, C, C++, HTML, CSS, SCSS, SASS

Frameworks: Node.js, NestJS, NextJS, Material-UI, Tailwind CSS

Databases: MySQL, PostgreSQL, NoSQL - MongoDB, Redis

Libraries: ReactJS, Redux, TanStack React Query, Redux Toolkit, React Hook Forms, MUI Core, Winston, Mongoose, PG, typeorm, async, lodash

Developer Tools: Git, Gitlab, JIRA, Confluence, Opsgenie, AWS, Sentry, Grafana, Prometheus, Elasticsearch, REST, JSON, Visual Studio Code, Figma