Rajat Singh

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EDUCATION

Jaypee Institute of Information Technology   Noida, India
Bachelor of Technology in Computer Science Engineering   *July. 2015 – May 2019*

EXPERIENCE

HDFC Securities   Bengaluru, India
Sr. Software Engineer: Fullstack   *Feb 2024 - Present*
- **Leading a team of 12 developers** using Agile methodologies to ensure efficient development and collaboration.
- Building a scalable **trading platform** with advanced data analysis features using a **polyrepo architecture** and a component library, 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*
- 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 and circuit breaker**, which eradicated memory leaks and increased its file handling capacity from a **single file with 0.2 million records** to handling **multiple files with 10 million+ 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, enhancing observability with **Grafana**, and migrating **MongoDb to PostgresSQL** 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 **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 through various CDKs/Terraforms.
- Contributed to the **Task Operation Service** based on **Nodejs**, optimizing the real-time **distribution of manual tasks** among agents and teams, significantly **enhancing team productivity**.
- Delivered major features like **Basic KYC, Repayment, etc.** in collaboration with Product and QA teams.
- Streamlined KYC processing, cutting **processing time by 70%**, through the automation of processes like auto loan decisioning, auto-verification, and auto-completion. This resulted in more KYC approvals with less workforce, **reducing workforce requirements from 300 to 120**.
- Addressed diverse tech backlogs, including **AWS EC2 to ECS** migration and security enhancements.

Mountblue technologies   Bengaluru, India
Software Developer   *May 2019 – Aug 2020*
- Took ownership of improving UX of internal **CRM web apps** based on **ReactJs**, implemented the backend services utilizing **MongoDB, Node.js, and Express** for optimal performance and scalability by making them configured to the needs of individual teams.
- Executed seamless **deployments using AWS and Jenkins** ensuring the application's availability and reliability.

PROJECTS

URL shortener   Git: Link
Email Parser using IMAP Server   Git: Link

TECHNICAL SKILLS

Languages: JavaScript, TypeScipt, HTML, CSS, SCSS, SASS, MongoDb, PostgreSQL
Frameworks: Node.js, NestJS, Material-UI, Tailwind CSS
Developer Tools: JIRA, Confluence, Opsgenie, Git, AWS, Sentry, Grafana, REST, JSON, Visual Studio Code, Figma
Libraries: ReactJS, Redux, Redux Toolkit, React Hook Forms, MUI Core, Winston, Mongoose, PG, async, lodash