# Rajat Chauhan

**Full stack Engineer**

Vancouver, B.C.

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## PROFESSIONAL SUMMARY

Software Engineer with extensive experience of over 5+ years in building scalable web applications using React.js, Next.js, and Redux. Proficient in data structures and algorithms, optimizing performance and efficiency in software development. Experienced in back-end development with Node.js, Express.js, Python, FastAPI and Typescript with expertise in database management (MongoDB, SQL) and cloud technologies (AWS, Docker). Adept at implementing CI/CD pipelines and managing cloud deployments in DevOps environments and solving complex problems in high-performance systems.

## PROFESSIONAL EXPERIENCE

**Relayfy Digital Services,** Vancouver                    *May 2024 – Present*

Frontend Developer (Freelance)

- Revamped a complex food ordering kiosk UI in React.js, enhancing user experience without altering business logic, leading to a 20% increase in customer satisfaction.
- Collaborated with the backend team to ensure seamless integration between front-end and server-side components, leading to a 15% reduction in integration issues and faster deployment times.
- Designed and implemented a custom theme for the app based on the new design, ensuring a consistent and cohesive visual experience throughout the entire application.
- Used Redux for efficient state management, ensuring smooth data flow and consistent application behaviour.

**Being Social Hub,** Jalandhar, India                    *August 2018 – November 2022*

Full-Stack Developer

- Led the development of several applications from concept to deployment as part of a small, agile team, delivering 5+ projects on time and within scope. These applications served over 10,000+ users and contributed to a 20% improvement in user engagement.
- Managed daily application development tasks, delivering high-quality features, and reducing development time by 15% through optimized workflows. Resolved 30+ complex code issues per quarter, leading to a 10% reduction in bug-related support tickets.

- Architected and implemented robust authentication modules across various applications, increasing security and user experience, which resulted in a 30% reduction in unauthorized access. Developed a one-time password system that improved login security by 40%.
- Led server setup and management, optimizing backend configurations to increase system uptime by 99.9%. Improved performance and scalability, supporting a 25% increase in concurrent users while reducing server response time by 40%.
- Developed the backend using Node.js and Express.js, improving server-side efficiency, handling 10,000+ daily requests. Implemented WebSockets for real-time notifications, boosting engagement by 15%.
- Engineered and implemented a robust platform for employee and client management, leading to 50% faster employee onboarding and 30% improved client satisfaction by creating intuitive, easy-to-use interfaces.
- Led the design and development of a secure document management system, streamlining backend file handling for 100+ documents daily. Ensured secure document storage, improving data integrity by 25% and retrieval time by 40%.
- Developed an automated invoicing system, reducing billing errors by 25% and expediting payment collection by 15 days on average, contributing to a 10% increase in cash flow.
- Managed the deployment of front-end and back-end components on Amazon EC2 instances, demonstrating proficiency in cloud solutions, reducing deployment time by 20% and ensuring 99% uptime.
- Built comprehensive CRM modules for employee management, document handling, and client tracking, improving operational efficiency by 30% and reducing manual administrative work by 40%.

## RECENT PROJECTS

1. **ECO – EDUCATIONAL CAREER ORIENTATION** ([www.ecocareer.app](www.ecocareer.app))
   - Developed Application for schools to help students to make informed career decisions through interactive data visualizations.
   - Developed frontend with NextJS, ReactJs and Redux.
   - Developed Rest APIs using NodeJs, Express and Typescript. Developed Notification Systems using web sockets.
   - Implemented Object Oriented Design in backend with singleton pattern in web sockets. Used MongoDB as database and mongoose as database modelling.
2. **SAFE – SITE ALERT FOR EMERGENCY** ([www.safesitealert.com](www.safesitealert.com))
   - Developed React Native application with hazard reporting time to as fast as 3 seconds.
   - Instantly send custom sound push notifications to all the workers in construction site and giving the details of accident.

- Used Web sockets to instantly send push notifications from the server side. Used Postgres as the database.

3. **TOYS TREASURE** ( https://toystreasure-50c4d.web.app/login)
   - A simple donation App for all the donation organizations and the users to donate toys to underprivileged students making use of google maps, React, and firebase.

## PROFESSIONAL SKILLS AND ABILITIES

### Technical Skills

- **Front-end Development –** React.js, Angular, Next.js, TypeScript, Redux, Webpack, Tailwind CSS,Shadcn/UI, ReCharts, D3.js, MaterialUI, Storybook,
- **Backend Development** – Node.js, Typescript, SWC, Express.js, NestJS, REST APIs, GraphQL, Microservices, Python, Java, MongoDB, SQL, Python, FastAPI
- **Devops** - AWS, Docker, Nginx, GitHub Actions, CloudWatch
- **Testing** – Jest, Cypress, React Testing Library
- **Cloud and Distributed Systems** – AWS EC2, S3, Route53, Redis, RabbitMQ

### Soft Skills
- Adaptability
- Communication
- Clarity of Concept
- Self-Motivation
- Teamwork

## EDUCATION

**Langara College,** Vancouver, BC
PDD Web and Mobile App Design & Development
*January 2023 – July 2024*

**Punjab Technical University,** Jalandhar, India
Electronics and Communication Engineering
*Aug 2014 - July 2018*

## CERTIFICATIONS AND CREDENTIALS

- Database Foundation : Application Development (LinkedIn Learning)
- DevOps foundation (LinkedIn Learning)