

ROBINS RANJAN

Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 2+ years of professional experience developing and maintaining web applications using JavaScript, TypeScript, Angular, React, Node.js, and REST APIs. Experienced in frontend development, microservices, event-driven architecture, real-time systems, authentication, relational and NoSQL databases, automated testing, Docker, and CI/CD workflows. Built CargoSync, a multi-tenant freight intelligence platform using React, Node.js microservices, Apache Kafka, Redis, PostgreSQL, MongoDB, WebSockets, Docker, and AWS. AWS Certified Cloud Practitioner with an M.S. in Information Systems from Northeastern University.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, Python, SQL, HTML5, CSS3/SASS

Frontend: React, Angular, React Router, TanStack React Query, Zustand, Redux Toolkit, NgRx, RxJS, Tailwind CSS, Bootstrap, Material UI

Backend & APIs: Node.js, Express.js, REST APIs, Spring Boot, Microservices, Apache Kafka, WebSockets, JWT, OAuth 2.0

Databases & Caching: PostgreSQL, MongoDB, MySQL, Redis, Oracle SQL

Cloud & DevOps: AWS, Amazon S3, Docker, Docker Compose, Jenkins, CI/CD, Git

Testing & Tools: Jasmine, Karma, Jest, Supertest, Cypress, Postman, Jira, Confluence

Developer & AI Tools: GitHub Copilot, Claude Code, OpenAI API, Gemini API

PROFESSIONAL EXPERIENCE

Prodapt Solutions | Bangalore, India

Associate Software Engineer | Apr 2022 - Mar 2024

- Developed, maintained, and enhanced frontend functionality for an enterprise telecommunications platform using Angular and TypeScript as part of a five-member software engineering team.
- Diagnosed and resolved application defects, implemented patches, and delivered feature updates for web applications used to manage telecommunications customer and subscription information.
- Worked within a Jira-driven Agile workflow, analyzing assigned tickets, implementing changes, testing solutions, and collaborating through daily stand-ups and sprint activities.
- Built and maintained reusable Angular components and application functionality while following established development standards and enterprise application architecture.
- Developed and maintained automated frontend unit tests using Jasmine and Karma to validate component behavior and prevent regressions during application updates.
- Investigated issues across frontend and API layers and occasionally contributed fixes to Python-based backend functionality when defects extended beyond the client application.
- Collaborated with developers to troubleshoot defects, test fixes, and deliver production-ready changes within sprint timelines.

PROJECTS

CargoSync - Real-Time Freight Intelligence Platform | github.com/robinsranjan007/Cargo-Sync

React | Node.js | Express.js | PostgreSQL | MongoDB | Redis | Apache Kafka | Docker | AWS S3 | WebSockets

- Architected and developed a multi-tenant freight management SaaS platform consisting of five independently containerized Node.js/Express microservices for authentication, load management, real-time tracking, notifications, and document processing.
- Designed an event-driven architecture using Apache Kafka for asynchronous communication between services through freight lifecycle and document-processing events.

- Implemented secure authentication using JWT access/refresh tokens, refresh-token rotation, token-family invalidation, bcrypt password hashing, httpOnly cookies, and Google OAuth 2.0.
- Enforced multi-tenant data isolation with tenant-scoped queries across service operations and designed polyglot persistence using PostgreSQL, MongoDB, and Redis.
- Developed real-time GPS tracking using WebSockets and Redis Pub/Sub, with geofencing based on the Haversine distance formula to generate location events.
- Built a freight-load lifecycle state machine enforcing valid transitions between created, assigned, in-transit, delivered, and cancelled states with timestamped status history.
- Developed secure document-upload workflows using Multer and Amazon S3, including structured object storage and presigned URLs for controlled access.
- Built the React frontend using React Router, Zustand, TanStack React Query, Axios, Tailwind CSS, and MapLibre GL for dashboards, load management, live tracking, and document uploads.
- Built an event-driven notification service using Kafka consumers and Nodemailer and containerized the frontend, five backend services, PostgreSQL, MongoDB, Redis, and Kafka using Docker Compose.

E-Commerce Platform | github.com/robinsranjan007/E-commerce

MongoDB | Express.js | React | Node.js | TanStack React Query | Stripe | JWT

- Developed a full-stack MERN e-commerce application with role-based authentication, product management, shopping cart, checkout, and order management.
- Designed RESTful APIs supporting server-side search, filtering, sorting, and pagination for product retrieval.
- Integrated Stripe Checkout and webhooks to process payments and trigger order updates following payment events.
- Used TanStack React Query for server-state management, caching, background synchronization, and frontend data retrieval.

Career Portal | github.com/robinsranjan007/Career-portal

MongoDB | Express.js | React | Node.js | Cloudinary | Multer | JWT

- Developed a multi-role recruitment platform supporting job seekers, employers, and administrators using React, Node.js, Express.js, and MongoDB.
- Implemented JWT-based authentication and protected REST APIs with role-based and resource-owner access controls.
- Built employer-facing workflows for job creation, applicant tracking, and application-status management.
- Implemented resume and profile-image uploads using Multer and Cloudinary and added API rate limiting for protected operations.

EDUCATION

Northeastern University - College of Engineering | Toronto, ON

Master of Science in Information Systems | Sep 2024 - May 2026 | GPA: 3.77/4.00

Dayananda Sagar College of Engineering | Bengaluru, India

Bachelor of Engineering in Electrical and Electronics Engineering | Aug 2018 - May 2022

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C02) - Amazon Web Services (AWS)

Issued Aug 2026 | Expires Aug 2029

https://www.credly.com/badges/295529b2-78f4-4309-865e-1f1a3f0dae35/public_url