Rohit Nawani

+1 (617) 888-2141 • Boston, MA • nawani.r@northeastern.edu • LinkedIn • GitHub • Portfolio

EDUCATION

Northeastern University, Boston, MA, Master of Science, Computer Software Engineering **Sep 2022 – Dec 2024**
Coursework: Application Development, Web Development, Object Oriented Design, Agile Development, Design Patterns
Mumbai University, **Mumbai,** Bachelor of Engineering, Computer Engineering **Aug 2016 - May 2020**
Coursework: Database Management System, Operating Systems, Cloud Computing, Analysis of Algorithms

PROFESSIONAL EXPERIENCE

IpserLab, Software Engineer, Boston, MA **Jan 2024 - May 2024**
- Developed **React** dashboard with **Redux and Chart.js** for quiz analytics, enabling users to create and analyze responses from customizable quiz templates with 30% faster data visualization load time
- Streamlined quiz event processing pipeline with **Kafka** and **Node.js** consumer groups, implementing retry mechanism and load-tested to handle 50,000+ daily events with 95% sub-second delivery
- Configured **Redis** caching with LRU strategy for quiz templates, reducing average API response time from 800ms to 300ms
- Integrated user authentication using **Auth0 SDK**, adding **JWT** token validation and **SSO** support for Google and Microsoft login options, improving user sign-up completion rate by 15%
- Implemented **Elasticsearch** with fuzzy matching for quiz search, achieving sub-300ms response time across 1000+ templates
- Containerized Node.js microservices via **Docker** and **docker-compose**, standardizing development & staging environment setup
- Built automated testing using **Jest** and **React Testing Library**, achieving 75% coverage for core quiz components

Capgemini Technology Services, Software Engineer, Mumbai **Jan 2021 - Aug 2022**
- Created **Spring Boot** inventory microservices with **Hibernate** that reduced processing time by 75%, handling 5000+ daily transactions
- Designed real-time notification system using **AWS SNS**, achieving sub-2-second delivery for 95% of manufacturing alerts
- Implemented **AWS CloudWatch** monitoring and alerting, reducing incident response time from 25 to 10 minutes
- Enhanced **PostgreSQL** query performance by 35% through B-tree indexing optimization across 100GB+ distributed database
- Automated **Terraform** modules with **Jenkins CI/CD** pipeline, reducing environment setup time from 12 to 2 hours across dev/staging
- Established automated testing strategy using **Junit and Mockito** with integration tests, improving coverage from 60% to 85%
- Collaborated in **agile** development using **Jira**, completing 40+ story points per sprint with 90% velocity across feature deliveries

Tripund Solutions, Software Engineer, Mumbai **Jul 2020 - Dec 2020**
- Designed responsive analytics interface using **Angular** and **Angular Material**, enabling instructors to monitor 100+ student activities
- Structured reusable **Angular** components with **RxJS** observables for real-time data streams, reducing code duplication by 30%
- Optimized **SQL Server** queries using stored procedures and indexing, reducing dashboard data retrieval time from 2s to 500ms
- Crafted RESTful APIs with **.NET Core and SQL Server**, processing 30+ concurrent requests with average response time of 200ms
- Conducted unit testing using **Jasmine** and **Karma**, achieving 70% coverage across 15+ dashboard components

PROJECTS

Personal Finance Management, Retrieval-Augmented Generation, OpenAI, FastAPI, Python **May 2024 - Aug 2024**
- Built **RAG-based** financial analysis system using **OpenAI API**, processing natural language queries for 20+ financial documents
- Optimized vector search using pgvector in **PostgreSQL**, achieving 300ms average response time for financial document queries

Serverless Event Management Platform, AWS Lambda, API Gateway, AWS DynamoDB **Jan 2023 - May 2023**
- Engineered serverless event platform using **AWS Lambda** and **API Gateway**, achieving 99% email notification reliability
- Structured **DynamoDB** schema with GSI for efficient event queries, enabling RSVP lookups in under 500ms

NU Moves, React, Node.js, Express.js, MongoDB, Material UI **Sep 2022 - Dec 2022**
- Developed full-stack marketplace using **MERN** stack, enabling seamless trading platform for Northeastern students
- Architected **React** components with **Redux**, reducing item listing load time by 40% through efficient state management

TECHNICAL SKILLS

Programming Languages:	Python, Java, JavaScript, TypeScript, SQL, C, C++, C#
Frontend Technologies:	HTML, CSS, ReactJS, Redux, Tailwind CSS, Angular
Backend Technologies:	NodeJS, ExpressJS, Apache Kafka, Spring Boot, REST APIs
Tools & Frameworks:	Git, Postman, Elasticsearch, OAuth, Firebase, Jira
Databases & Caching:	MongoDB, NoSQL, MySQL, SQL Server, PostgreSQL, Redis
Cloud & DevOps:	AWS (S3, EC2, Lambda, DynamoDB, SNS/SQS), Docker, Terraform, Jenkins, Microsoft Azure