Rohit Nawani

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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 using **Kafka** and **Node.js** consumer groups, handling 500+ concurrent users with event sourcing, achieving 95% sub-second delivery with retry mechanism
- 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%
- 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 using **Hibernate**, processing 5000+ daily transactions, 98% completion rate
- 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 **Jenkins CI/CD** pipeline with parallel builds and rolling deployments, reducing build time from 15 to 8 minutes
- Established automated testing strategy using **Junit and Mockito** with integration tests, improving coverage from 60% to 85%

Tripund Solutions, Software Engineer, Mumbai   **Jul 2020 - Dec 2020**
- Designed responsive analytics interface using **Angular** and **Angular Material**, enabling instructors to monitor 50+ student activities in real-time
- Constructed **NgRx** store for dashboard state management, reducing API calls from 30 to 12 per session
- Optimized **SQL Server** queries using stored procedures, reducing dashboard data retrieval time from 2s to 800ms
- Crafted RESTful APIs with **.NET Core and SQL Server**, processing 30+ concurrent requests with average response time of 200ms
- Established unit testing framework with 70% code coverage, reducing bug reports by 20% in core services

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++
Web Technologies:	HTML, CSS, ReactJS, Redux, Tailwind CSS, NodeJS, ExpressJS, Angular, REST APIs
Tools/Frameworks:	Git, Spring Boot, Jenkins, Apache Kafka, Postman, OAuth, Firebase, ServiceNow
Databases:	MongoDB, MySQL, SQL Server, NoSQL, PostgreSQL, Redis
Cloud/DevOps:	AWS (S3, EC2, Lambda, DynamoDB, API Gateway, SNS), Docker, Microsoft Azure