ROHIT NAWANI

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EDUCATION

Master of Science, Computer Software Engineering, Northeastern University   **September 2022 - December 2024**
Coursework: Design and Analysis of Algorithms, Web Development, Object Oriented Design, Design Patterns   **GPA: 3.9/4.0**

Bachelor of Engineering in Computer Engineering, Mumbai University   **August 2016 - May 2020**
Coursework: Database Management System, Agile Development, Operating Systems, Cloud Computing

EXPERIENCE

Software Engineer, Ipserlab, LLC, Mountain View, CA   **January 2024 - May 2024**

- Built responsive **React** dashboard with **Redux Toolkit** and **Tailwind CSS**, reducing load time from 2.1s to 1.4s via code splitting while decreasing component re-rendering by 25% for improved responsiveness
- Implemented reusable form library with **React Hook Form** and **Zod** validation, reducing assessment feature development time by 40% while ensuring consistent error handling and accessibility
- Integrated **Redis** caching for frequently accessed learning content, reducing average API response time from 180ms to 120ms
- Collaborated to implement **Auth0 SDK** with **OAuth 2.0** flows and **JWT** validation for role-based access control and MFA, enhancing application security
- Containerized application via **Docker** & **Docker Compose**, enabling consistent dev environments and reducing setup issues

Software Engineer, Capgemini Technology Services, Mumbai   **January 2021 - August 2022**

- Developed inventory microservices using **Spring Boot** and **Hibernate**, implementing connection pooling and asynchronous processing that contributed to handling approximately 50k daily transactions
- Configured monitoring infrastructure with **Prometheus** and **Grafana** dashboards, refining PromQL alerts integrated with **AWS SNS** that reduced mean time to detection for inventory anomalies from 6 to 2.5 minutes
- Optimized **AWS RDS** performance through SQL analysis and strategic indexing, reducing search latency from 380 to 220ms
- Established automated test pipeline with **JUnit** and **Mockito** for Spring Boot microservices, implementing **Jenkins CI/CD** workflow that reduced deployment time from 40 to 15 minutes and contributed to a 30% decrease in production defects

Software Engineer, Tripund Solutions, Mumbai   **June 2020 - December 2020**

- Developed components for analytics platform using **Angular** and **RxJS** observables, enabling warehouse managers to monitor 1000+ daily shipments in real time, helping improve pick accuracy through better visibility of inventory status
- Enhanced **PostgreSQL** query performance using materialized views, reducing dashboard aggregation time from 1.2s to 800ms
- Implemented RESTful APIs using **.NET Core** and **PostgreSQL** that processed 2,000+ daily warehouse inventory operations
- Engineered unit tests with **Jasmine** and **Karma** for Angular components, achieving 80% code coverage for critical features

PROJECTS

Personal Finance Management | RAG(Retrieval-Augmented Generation), OpenAI   **June 2024 - August 2024**

- Built RAG-based financial analysis system using **Next.js**, **TypeScript**, and **OpenAI API**, processing natural language queries for 20+ financial documents with improved UI responsiveness
- Implemented vector search using pgvector in **PostgreSQL**, enabling financial document similarity matching with 85% precision

Serverless Event Management | AWS Lambda, API Gateway, AWS DynamoDB, AWS SES   **January 2023 - May 2023**

- Engineered serverless event platform with **AWS Lambda** and **API Gateway**, achieving around 95% 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, Elasticsearch   **September 2022 - December 2022**

- Developed **MERN** stack marketplace with **Elasticsearch** search, enabling Northeastern students to discover and trade items
- Architected **React** components with **Redux**, reducing item listing load time by 40% through efficient state management

SKILLS

Languages	Python, Java, JavaScript, SQL, TypeScript, Linux/Unix, C, C++, C#
Frontend Technologies	HTML, CSS, Tailwind CSS, React.js, Angular, Redux, NgRx, Next.js
Backend Technologies	NodeJS, Express, Spring Boot, REST APIs, FastAPI, Apache Kafka, Socket.io
Tools & Frameworks	Git, Postman, Elasticsearch, Firebase, OAuth, Vite, Maven, Jira, ServiceNow
Database & Caching	MongoDB, NoSQL, MySQL, PostgreSQL, SQL Server, Oracle DB, Redis
Cloud Technologies	AWS(S3, EC2, SNS/SQS), Microsoft Azure, GCP
Testing Tools & Libraries	Jest, React Testing Library, Mocha, Chai, JUnit/Mockito, Cypress, Selenium