Nimish Rao

+91 9301393723 | raonimish25@gmail.com | linkedin.com/in/nimishraoworks | github.com/Nimish2098

SUMMARY

Built scalable RESTful APIs using Java and Spring Boot with clean architecture principles. Worked with relational databases and Redis, implemented authentication/authorization, validation, transactional logic, and optimized backend performance.

EDUCATION

Vellore Institute of Technology — Bhopal, MP
B.Tech Computer Science Engineering with spec. in AIML - 8 CGPA — *2022 – 2026(expected)*

Sai Shree International Academy — Ratlam, MP
Class XII – 81.8% — *2020 – 2021*

Sai Shree International Academy — Ratlam, MP
Class X – 90.5% — *2018 – 2019*

PERSONAL PROJECTS

Link Snap ⭘ — Dec 2025 – Jan 2026
Java, Spring Boot, MySQL, Redis, Docker
- Engineered a scalable backend using **Java** and **Spring Boot** with a **layered architecture** and clean service design.
- Designed structured **HTTP endpoints** with **input validation**, centralized **exception handling**, and **transactional workflows**.
- Integrated **Redis caching** to improve response time and reduce database load under high concurrency.
- Optimized **MySQL** queries using indexing strategies for efficient analytics retrieval.
- Containerized the service with **Docker** for consistent builds and streamlined deployment.
- Implemented **asynchronous processing** for analytics logging and external notifications to enhance throughput.

Finance Tracker ⭘ ⬀ — Sept 2025 – Nov 2025
Java, Spring Boot, Spring Security, PostgreSQL, React
- Architected a personal finance platform with secure backend services using **Spring Boot** and **PostgreSQL**.
- Implemented **stateless authentication** and **role-based authorization** using **Spring Security** and **JWT**.
- Built **pagination** and **filtering mechanisms** to efficiently handle large transaction datasets.
- Applied structured **validation**, **integration testing**, and **performance tuning** to ensure reliability.
- Developed an interactive frontend using **React** with financial dashboards and reporting visualizations.

Automated Approval System ⭘ — Apr 2025 – May 2025
Spring Boot, PostgreSQL, WebSockets
- Developed a backend **workflow engine** to manage multi-stage document approvals with defined state transitions and audit tracking.
- Ensured **data integrity** through transactional control and centralized failure handling mechanisms.
- Maintained approval history and document states in **PostgreSQL** with strong consistency guarantees.
- Integrated **WebSocket**-based real-time updates to support event-driven communication.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL

Frontend: HTML, CSS, React

Backend & Frameworks: Spring Boot, Spring MVC, Spring JPA, Hibernate, REST APIs

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis

Developer Tools: Git, GitHub, Maven, Docker, Postman, Docker Compose

CS Fundamentals: DSA (Java), OOP, DBMS, OS, CN, System Design

EXTRACURRICULAR ACTIVITIES

- LeetCode: Achieved a **1501 contest rating**, reflecting consistent performance in timed coding contests.
- Solved **300+ DSA problems** across LeetCode, GeeksforGeeks, and Codeforces, strengthening core problem-solving and coding fundamentals. ⬀
- Spearheaded a team of volunteers for **VITB MUN 24**, securing venue sponsorships and enhancing event accessibility.
- Achieved a competitive rank in **CodeClash – The Battle of Logic & Code** hosted on **Unstop**. ⬀