Nimish Rao

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PROFESSIONAL SUMMARY

Experience building backend applications and RESTful APIs using Java and Spring Boot, with an emphasis on clean service design and scalable architecture. Worked with relational databases, Redis caching, authentication and authorization, and implemented validation, transactional logic, and performance-focused backend services.

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*

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, Redis

Developer Tools: Git, GitHub, Maven, Docker, Postman, CI/CD

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**. ⇗