

# Nimish Rao

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## 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

<b>Vellore Institute of Technology</b>	Bhopal, MP
<i>B.Tech Computer Science Engineering with spec. in AIML - 8 CGPA</i>	<i>2022 – 2026(expected)</i>
<b>Sai Shree International Academy</b>	Ratlam, MP
<i>Class XII – 81.8%</i>	<i>2020 – 2021</i>
<b>Sai Shree International Academy</b>	Ratlam, MP
<i>Class X – 90.5%</i>	<i>2018 – 2019</i>

## PERSONAL PROJECTS

<b>Link Snap</b> 	Dec 2025 – Jan 2026
<i>Java, Spring Boot, MySQL, Redis, Docker</i>	
<ul style="list-style-type: none"><li>Engineered a scalable backend using <b>Java</b> and <b>Spring Boot</b> with a <b>layered architecture</b> and clean service design.</li><li>Designed structured <b>HTTP endpoints</b> with <b>input validation</b>, centralized <b>exception handling</b>, and <b>transactional workflows</b>.</li><li>Integrated <b>Redis caching</b> to improve response time and reduce database load under high concurrency.</li><li>Optimized <b>MySQL queries</b> using indexing strategies for efficient analytics retrieval.</li><li>Containerized the service with <b>Docker</b> for consistent builds and streamlined deployment.</li><li>Implemented <b>asynchronous processing</b> for analytics logging and external notifications to enhance throughput.</li></ul>	
<b>Finance Tracker</b>  	Sept 2025 – Nov 2025
<i>Java, Spring Boot, Spring Security, PostgreSQL, React</i>	
<ul style="list-style-type: none"><li>Architected a personal finance platform with secure backend services using <b>Spring Boot</b> and <b>PostgreSQL</b>.</li><li>Implemented <b>stateless authentication</b> and <b>role-based authorization</b> using <b>Spring Security</b> and <b>JWT</b>.</li><li>Built <b>pagination</b> and <b>filtering mechanisms</b> to efficiently handle large transaction datasets.</li><li>Applied structured <b>validation</b>, <b>integration testing</b>, and <b>performance tuning</b> to ensure reliability.</li><li>Developed an interactive frontend using <b>React</b> with financial dashboards and reporting visualizations.</li></ul>	
<b>Automated Approval System</b> 	Apr 2025 – May 2025
<i>Spring Boot, PostgreSQL, WebSockets</i>	
<ul style="list-style-type: none"><li>Developed a backend <b>workflow engine</b> to manage multi-stage document approvals with defined state transitions and audit tracking.</li><li>Ensured <b>data integrity</b> through transactional control and centralized failure handling mechanisms.</li><li>Maintained approval history and document states in <b>PostgreSQL</b> with strong consistency guarantees.</li><li>Integrated <b>WebSocket</b>-based real-time updates to support event-driven communication.</li></ul>	

## 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**. 