

Nimish Rao

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SUMMARY

Focused on designing scalable backend services, building secure APIs, managing databases, and contributing effectively within fast-paced startup teams.

TECHNICAL SKILLS

- **Languages:** Java, Python, SQL
- **Backend:** Spring Boot, Spring Security, REST APIs, JWT, WebSockets, STOMP
- **Databases:** MySQL, PostgreSQL

EDUCATION

Vellore Institute of Technology

B.Tech Computer Science Engineering with spec. in AIML - 8 CGPA

Bhopal, MP

2022 – 2026

PROJECT

Personal Finance Tracker

Nov 2025

Java, Spring Boot, Spring Security, JWT, PostgreSQL, React

- Developed a backend-driven personal finance application using **Spring Boot**, with a **React-based frontend** to manage user accounts, transactions, budgets, and expense categories.
- Implemented **JWT-based authentication** and role-based authorization with **Spring Security** to ensure secure access to financial data.
- Designed and applied **rule-based financial analysis** to detect budget threshold breaches, recurring expenses, spending spikes, and category-level overspending.
- Built optimized **REST APIs** with pagination and indexed queries on **PostgreSQL** to support efficient transaction retrieval and monthly financial summaries.
- Structured the application using a layered architecture (Controller, Service, Repository) to improve code maintainability and scalability.

Real-Time Chat Application

Aug 2025

Java, Spring Boot, WebSocket, STOMP, Java Swing

- Implemented a real-time chat feature using **Java** and **Spring Boot**, enabling users to send and receive messages instantly through **WebSocket (STOMP)** communication.
- Developed a simple **Java Swing desktop client** that connects to the backend server to display live chat messages and show currently connected users.
- Managed multiple user connections by maintaining active sessions on the server to ensure smooth message delivery during concurrent usage.
- Configured **publish–subscribe messaging channels** such as `/topic/messages` and `/topic/users` to broadcast chat messages and user status updates in real time.

Automated Approval System

Apr 2025

Spring Boot, PostgreSQL, WebSockets

- Developed a document approval system using **Spring Boot** where requests move through multiple predefined approval stages before completion.
- Designed structured **REST APIs** with role-driven approval workflows to manage document state transitions.
- Stored approval history in **PostgreSQL** and implemented **WebSocket-based real-time updates** for approval status changes.

CERTIFICATIONS

- HTML, CSS, and JavaScript for Web Developers — Coursera
- Learn Java: Beginner to Advanced — Udemy

ADDITIONAL HIGHLIGHTS

- Spearheaded a team of volunteers for VITB MUN 24, securing venue sponsorships and enhancing event accessibility.
- Secured **1757th rank** in **CodeClash – The Battle of Logic & Code Unstop**.