

# Nimish Rao

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## TECHNICAL SKILLS

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- **Languages:** Java, Python, SQL, HTML/CSS, JavaScript
- **Tools/Technologies:** Maven, Docker, Git, CI/CD Pipelines, Microservices, RESTful APIs
- **Libraries/Frameworks:** Spring Boot, Spring Framework (Core, MVC), Hibernate (JPA), FastAPI, JSP )

## EDUCATION

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### VIT Bhopal University

B.Tech Computer Science Engineering with spec. in AIML - 8.08 CGPA

Bhopal, MP

Sept. 2022 – June 2026

### Sai Shree International Academy

Class-XII - 81.8%

Ratlam, MP

April 2020 – May 2021

### Sai Shree International Academy

Class-X - 91.2%

Ratlam, MP

April 2018-March-2019

## PROJECT

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### QuikShop

April 2025

[Github link](#)

Java, Spring Boot, MySQL, HTML, CSS, REST API

- Developed a full-stack e-commerce platform with user authentication, product listings, cart, and order management using Java.
- Integrated payment gateway simulation for checkout, enhancing user experience through responsive UI (HTML, CSS, JSP), improving load times by 30%.
- Tested 100+ API endpoints with Postman, achieving 95% coverage and ensuring reliability.

### Real-Time Chat Application Backend

April 2025

[Github link](#)

Java, Spring Boot, MySQL, HTML, CSS, REST API

- Engineered a real-time chat backend using Java, Spring Boot supporting 500+ concurrent user connections via WebSockets (Spring STOMP)
- Secured chat endpoints with Spring Security, maintaining 99.9% uptime and handling 10,000+ messages per minute in 100+ chat rooms.
- **Developed** a robust message persistence layer, handling **10,000+ messages per minute**.
- **Designed** and **managed 100+ chat rooms** and private conversations.
- **Enhanced** user experience through efficient real-time data flow and history retrieval.

### Real-Time Recommendation Engine Backend

May 2025

[Github link](#)

Java, Spring Boot, Apache Kafka

- Engineered a real-time recommendation engine using Java, Spring Boot, FastAPI, Apache Kafka, Redis, PostgreSQL/MongoDB, Prometheus, Grafana, and Docker.
- Processed 1,000+ user interactions/second; developed a collaborative filtering algorithm analyzing 50,000+ items for relevant suggestions.
- Implemented an event-driven architecture with Apache Kafka for 5,000 events/second ingestion and optimized performance with Redis caching, reducing database load by 70%.

## CERTIFICATION

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- Artificial Intelligence powered by Google developers, SmartInternz
- Machine Learning with Python, Coursera
- Privacy and security in online social media, NPTEL
- HTML, CSS and JavaScript for Web Developers, Coursera

## ACHIEVEMENTS

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- Active participant in multiple hackathons demonstrating collaborative problem-solving and rapid prototyping.
- Spearheaded a team of five volunteers for VITB MUN 24, securing venue sponsorships and enhancing event accessibility.