

# Urvi Patel

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## Profile

Computer Science professional with experience in designing and developing backend and full-stack applications using Java, Spring Boot, React, and PostgreSQL. Skilled in building secure RESTful APIs, integrating machine learning services, and deploying scalable applications. Strong foundation in data structures, algorithms, and software engineering principles.

## Work Experience

### Software Developer Skylink Infosolutions

Jun 2023 - Aug 2023

- Developed backend features using Java and Spring Boot for a client-based project.
- Contributed to the Incline project, implementing RESTful APIs and core functionalities.
- Assisted in requirement analysis, debugging, testing, and deployment support.
- Collaborated with team members to meet project deadlines and deliverables.
- Resolved issues and improved application performance while following best coding practices.

## Education

### Master's of Science in Computer Science - 3.75 GPA

Mississippi College

### Bachelor's of Technology in Computer Engineering - 3.8 GPA

Marwadi University

## Projects

### AI-Powered Financial Risk & Decision Intelligence Platform

- Developed a full-stack financial analytics platform using Java, Spring Boot, React, and PostgreSQL to predict user financial risk through machine learning models.
- Built scalable RESTful APIs and integrated a Python-based ML service for risk prediction, scenario simulation, and secure financial data management with JWT authentication and JPA/Hibernate.
- Designed an interactive React dashboard with real-time financial insights and containerized backend, frontend, and ML services using Docker for scalable deployment.

### RideMate – Ride Sharing Platform

- Designed and developed a full-stack ride-sharing platform enabling trip creation, booking, and real-time communication.
- Built secure REST APIs with Node.js and Express, implementing JWT-based authentication and role-based access control.
- Integrated Stripe for secure payment processing and booking transactions.
- Implemented real-time messaging and notifications using Socket.IO.
- Deployed the application on AWS using Docker and cloud services.

### AI-Driven Real-Time Stock Price Tracker

- Developed a real-time stock monitoring system using Java and Spring Boot to stream live market data.
- Implemented WebSocket-based communication for real-time data visualization.
- Built an event-driven architecture using Kafka to process high-frequency data streams.
- Designed an AI-based prediction module using historical stock data for trend analysis.
- Containerized the system using Docker for scalability.

## Skills

- Programming Languages:** Java, Python, C, C++, C#
- Backend Technologies:** Spring Boot, REST APIs, Microservices, WebSockets
- Databases:** PostgreSQL, MySQL, MongoDB, Oracle, SQL
- Cloud & DevOps:** AWS, Docker, Jenkins, Kubernetes
- Tools:** Git, GitHub, Postman, JUnit, VS Code, IntelliJ
- Frontend:** React.js, TypeScript, JavaScript, HTML, CSS
- Concepts:** OOP, DSA, SDLC, Agile, System Design