

# RITESH PRATAP SINGH

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Aspiring Java Developer with strong programming skills in Java, object-oriented design, and back-end development. Hands-on experience on building software systems, REST APIs, and working with databases. Passionate about building scalable, maintainable software solutions.

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## PROJECTS

### Library Management System (Java + MySQL)

- Architected and implemented a full-stack library management solution to streamline inventory tracking, member management, and transaction processing.
- Developed and optimized CRUD operations using JDBC with MySQL, reducing manual record-keeping time by 60%.
- Designed a responsive, user-friendly GUI using Java Swing, improving accessibility for non-technical staff.

### E-Commerce Website Backend (Spring Boot)

- Built and deployed a scalable RESTful API for product, user, and order management, enabling seamless integration with frontend platforms.
- Utilized Hibernate ORM with MySQL for optimized data persistence, reducing query response time by 35% and ensuring high data integrity.
- Applied layered architecture and Spring Boot best practices to enhance maintainability and scalability of the backend system.

### Smart Fire Detection System (Java + IoT)

- Developed an IoT-enabled real-time fire detection and alert system integrating temperature and smoke sensors with microcontrollers and Java backend services.
  - Implemented automated SMS alerts via GSM modules, reducing emergency response time by up to 40%.
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## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, SQL, HTML/CSS

**Libraries:** Pandas, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, React (basic)

**Tools & Platforms:** Git, Docker, VS Code, PowerBI, Tableau, Excel, Google BigQuery (basic)

**Databases:** MySQL, PostgreSQL

**Soft Skills:** Critical Thinking, Communication, Team Collaboration, Attention to Detail, Problem-Solving, Adaptability

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## EDUCATION

Bachelor of Technology in Computer Science & Engineering

Shri Ramswaroop Memorial University, Lucknow — Aug 2023-Present

CGPA: 7.05 / 10 (Current)

Senior Secondary ( XII ) – S.K.D Academy (2023)

ISC - (75%)

Secondary (X) – S.K.D Academy (2021)

ICSE (87.5%)

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## CERTIFICATIONS

- Power BI – Microsoft (Jul 2024)
- Walmart Advanced software engineering Job Simulation Forage - April 2025
- Business Analytics Workshop – IIT Mandi (March 2025)