

# YUVRAJ SINGH LODHI

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Jabalpur, Madhya Pradesh, India

## PROFESSIONAL SUMMARY

Motivated Backend Developer with strong expertise in building scalable systems and RESTful APIs. Experienced in Java, Python, and modern frameworks including Spring Boot and FastAPI. Proficient in AI integration, cloud technologies, and database management. Developer with a passion for problem-solving and delivering efficient, impactful solutions.

## EDUCATION

<b>Baderia Global Institute of Engineering and Management</b> <i>Bachelor of Technology in Electronics and Communication Engineering</i>	Jabalpur, MP 2021 – 2025
• CGPA: 7.0/10.0	
<b>Samdariya Public School</b> <i>Higher Secondary Education (12th) - Science Stream</i>	Jabalpur, MP Completed: Mar 2021
• Percentage: 83%	

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C++, JavaScript

**Core Concepts:** Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Exception Handling, Collections Framework, Design Patterns

**Backend Frameworks:** Spring Framework, Spring Boot, Spring Data JPA, Hibernate, FastAPI, Uvicorn

**Python Libraries:** Pydantic, SQLAlchemy, Requests, JSON Processing

**AI and LLMs:** OpenAI API, Google Gemini API, LangChain, LangGraph, RAG (Retrieval-Augmented Generation), AI Agents, Multi-Agent Systems, Tool Calling

**API Development:** RESTful APIs, API Design, Swagger/OpenAPI, cURL, Postman

**Databases:** MySQL, PostgreSQL, MongoDB, SQLite, JDBC, Database Design, Query Optimization

**Build and Testing Tools:** Maven, SonarQube, Postman, API Testing

**Version Control:** Git, GitHub, Bitbucket, SourceTree, Advanced Git Workflows

**Development Tools:** IntelliJ IDEA, Visual Studio Code, PyCharm

**AI-Assisted Coding:** Vibe Coding, GitHub Copilot, Claude Code, Cursor AI

**Project Management:** Jira, Agile Methodologies

**Web Technologies:** HTML5, CSS3, JavaScript, React, Responsive Design

**Architecture and Design:** Microservices Architecture, Layered Architecture, RESTful Design Principles

## PROJECTS

<b>Product Management System</b>   <i>FastAPI, React, PostgreSQL, SQLAlchemy</i>	2024
• Developed a full-stack product tracking and management application with FastAPI backend and React frontend for efficient CRUD operations	
• Architected RESTful API endpoints (GET, POST, PUT, DELETE) using FastAPI with SQLAlchemy ORM for seamless database interactions	
• Integrated PostgreSQL database with SQLAlchemy models for robust data persistence and implemented SQLite alternative for development flexibility	
• Built responsive React frontend using Create React App with form-driven UI for adding, editing, and deleting products with real-time updates	
• Configured CORS middleware for secure cross-origin communication between React frontend (localhost:3000) and FastAPI backend (localhost:8000)	
• Implemented comprehensive error handling, input validation with Pydantic models, and database initialization automation	
• Utilized modern Python features and best practices including type hints, async operations, and proper project structure	

<b>Student Management Portal</b>   <i>Spring Boot, MySQL, HTML, CSS, JavaScript</i>	2024
• Developed a full-stack web application for managing student records with complete CRUD functionality	
• Designed and implemented RESTful APIs using Spring Boot following layered architecture (Controller, Service, Repository)	

- Integrated MySQL database with Spring Data JPA and Hibernate ORM for efficient data persistence
- Built responsive frontend interface with HTML5, CSS3, and JavaScript featuring client-side validation and dynamic rendering
- Implemented best practices including exception handling, input validation, and separation of concerns
- Utilized Maven for dependency management, Git for version control, and Postman for API testing

## CERTIFICATIONS

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<b>Oracle Cloud Infrastructure 2025 Certified Developer Professional</b>	Oracle Sep 2025
<b>Java Programming Certification</b>	Cisco Networking Academy Feb-Mar 2024
<b>C++ Programming</b>	Cisco Networking Academy Jun-Sep 2023

## ADDITIONAL INFORMATION

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**Soft Skills:** Strong Communication, Team Collaboration, Problem-Solving, Adaptability, Time Management

**Languages:** Hindi (Native), English (Proficient)

**Strengths:** Honesty, Discipline, Calmness Under Pressure, Positive Work Attitude