Krishna Kumar Yadav

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SUMMARY

Detail-oriented backend developer skilled in Java and Spring Boot, designing scalable REST APIs. Experienced in algorithm challenges and clean code practices. Actively seeking software development roles to apply expertise and grow collaboratively.

EXPERIENCE

Software Development Intern | YHills Edutech Pvt Ltd | February 2024 - March 2024
· Contributed to backend development and technical documentation during a virtual internship.
· Participated in code reviews and discussions to strengthen understanding of backend systems.
· Improved skills in modular design, Git workflows, and REST API development through hands-on projects.

PROJECT

REST API Backend with Spring Boot | January 2025 - February 2025
· Developed a secure RESTful API with CRUD operations using Spring Boot and PostgreSQL for reliable data handling.
· Applied modular architecture with dependency injection and controller-service-repository design.
· Integrated validation and global exception handling; achieved response times under 200ms for 50+ request types.
· **Tech Stack:** Java, Spring Boot, PostgreSQL, IntelliJ.

AI-Powered Chatbot Web App(Group Project) | ai-powered-chatbot-web-app.onrender.com | August 2024 - October 2024
· Built a GPT-based chatbot using Flask and OpenAI API to enable real-time, interactive conversations.
· Designed a responsive frontend with Tailwind CSS and implemented MongoDB for state management and caching.
· Applied prompt engineering techniques to improve contextual accuracy; deployed on Render and tested by peers.
· **Tech Stack:** Python, Flask, OpenAI API, MongoDB, Tailwind CSS.

Homecare Services Website – EasyCare (Group Project) | February 2023 - May 2023
· Built a responsive web platform for booking homecare services using HTML, CSS, and JavaScript.
· Collaborated in a 3-member team to implement role-based user interfaces and user flows.
· Created 10+ mobile-friendly pages with basic accessibility; used GitHub for version control and collaboration.
· **Tech Stack:** HTML, CSS, JavaScript, GitHub.

EDUCATION

Bachelor of Engineering – Computer Science | Chandigarh University | Mohali, India | 2025 | 75.5%
· Research Presentation: *AI-Driven Secure Web Application Penetration Testing*, ICAAICS-2025 (UGC/Scopus)

Intermediate | Army Public School, Ferozepur | Ferozepur | 2020 | 80%

Matriculation | Army Public School, Bolarum | Secunderabad | 2018 | 86.8%

CERTIFICATIONS

Developing AI Applications with Python and Flask – IBM | 2024

Generative AI: Prompt Engineering Basics – IBM | 2024

Introduction to Java – LearnQuest (Coursera) | 2023

SKILLS

Programming Languages – Java (primary, extensive DSA experience), Python (basic)
Core Concepts – Object-Oriented Programming (OOP), Data Structures & Algorithms, REST API Design, Modular System Design, Clean Code Principles (DRY, KISS), Network Architecture (Client-Server, Layered), SDLC Models (Agile, Waterfall)
Database Management – PostgreSQL, MongoDB, MySQL (basic), DBMS, CRUD Operations, Schema Design
Tools and Platforms – Spring Boot, Flask, Node.js (basic), OpenAI API, Git, GitHub, IntelliJ IDEA, VS Code, Jupyter, Android Studio, Power BI
Software Engineering Practices – Unit Testing, Integration Testing, Manual Testing, Agile Collaboration, Technical Documentation, UI/UX Fundamentals