Jaisimha Kothari

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Professional Summary

Motivated Computer Science junior with hands-on experience in software development, focusing on building scalable and resilient solutions. Proficient in Python, Java, C++, and web technologies, with experience in frameworks like Spring Boot and React. Passionate about building innovative, high-impact solutions in file compression, eCommerce, and supply chain systems. Ready to apply technical skills and problem-solving expertise to drive results in a fast-paced development team.

Education

Bachelor of Science in Computer Science   Vasavi College of Engg., Telangana

2022 – 2026

Relevant Coursework: Algorithms, Data Structures, Web Development, Software Engineering, Database Management

Projects

❖ Spring Boot eCommerce Application   *Nov 2024 – Jan 2025*

• Developed a full-stack eCommerce platform using Spring Boot for the backend, managing product catalogs, user authentication, and order processing.

• Built a RESTful API for managing products, shopping carts, and orders.

• Implemented JWT (JSON Web Tokens) for secure user authentication and authorization.

• Utilized SHA256 hashcodes for securely storing and validating user credentials.

• Designed the front end with React, offering a dynamic and responsive user experience.

• Deployed the application using Apache Tomcat to serve the backend and ensure smooth operation.

• Technologies: Spring Boot, Spring Security, JWT, SHA256, RESTful APIs, React, Apache Tomcat, Java, MySQL/PostgreSQL.

❖ Huffman File Compression Application   *Dec 2023 – Jan 2024*

• Developed a Java-based desktop application for lossless file compression and decompression using Huffman encoding.

• Implemented file and string-based compression features, optimizing file size while preserving data integrity.

• Utilized advanced data structures (priority queues, hash maps) to enhance algorithm performance and efficiency.

• Designed a GUI with Java Swing/JavaFX for intuitive file selection and progress tracking.

• Technologies: Java, Huffman Encoding, Data Structures, Java Swing/JavaFX, File I/O.

❖ Fraud Detection System for eCommerce   *Feb 2025 – present*

• Developed an ML model to detect fraudulent transactions, enhancing eCommerce security..

• Used XGBoost & Random Forest, achieving high accuracy..

• Designed a RESTful API using FastAPI/Flask for seamless integration with e-commerce platforms.

• Deployed the application on AWS Lambda/Azure Functions, ensuring scalability and resilience.

• Integrated secure transaction log storage using DynamoDB/CosmosDB.

• Established a CI/CD pipeline with GitHub Actions for automated testing and deployment.

• **Technologies:** Python, Machine Learning, FastAPI/Flask, AWS Lambda/Azure Functions, DynamoDB/CosmosDB, CI/CD (GitHub Actions), REST APIs.

Skills

Programming Languages: Java, Python, JavaScript, C++, SQL, HTML, CSS
Technologies & Frameworks: Spring Boot, Spring Security, React, JWT, PostgreSQL, MySQL
Tools: Git, GitHub, Visual Studio Code, IntelliJ IDEA, Apache Tomcat
Methodologies: Object-Oriented Programming (OOP), RESTful APIs, Data Structures & Algorithms

Certifications

Joy of computing using python   Nptel [IIT Madaras], Jul-Oct 2024
Data Base Management System   Nptel [IIT Kharagpur], Jan-Mar 2024

Achievements

- Solved 350+ DSA Problems – Competitive programming on LeetCode & TUF.
- Top 5% in NPTEL's "Joy of Computing using Python" exam– Excellence in Python programming.
- Toastmasters member and Speech Marathon participant for Limca Book of Records 🔗 and also 2× College Table Tennis Champion.