SHIVA RAMA KRISHNA KURRA

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PROFESSIONAL SUMMARY

I am a MSc Computer Science graduate with professional experience in Java, Spring Boot, and microservices-based architecture. I am skilled in building robust backend systems, REST APIs, and database-driven applications. Successfully migrated enterprise systems with zero downtime and implemented clean code practices using TDD and BDD. Strong understanding of object-oriented design, data structures, and system optimization.

WORK HISTORY

Web Development Trainee, 07/2021 - 09/2021
Jaldi Technologies - Bangalore, India

- Developed responsive web applications using React.js & JavaScript, improving UI responsiveness by 25%.
- Resolved 100+ software bugs, increasing stability and reducing post-deployment issues by 15%.
- Assisted in Agile sprints, contributing to feature development, testing and gained problem solving abilities.

SKILLS

- **Programming:** Java, Python, JavaScript, SQL, React.js, HTML5, CSS3, C#, C++.
- **Backend Development:** Spring Boot, JPA, Hibernate, REST APIs, Node.js, PHP, Responsive design.
- **Microservices & Architecture:** Spring Boot Microservices, Event-Driven Architecture, Docker, Kubernetes.
- Concepts & Principles: Data Engineer, data pipeline, ETL, Python, NumPy, Pandas, dataset preparation, data cleaning, ML integration, Responsive Design
- **Databases & Cloud**: PostgreSQL, SQL Server, Firebase
- **Testing & DevOps:** JUnit, Selenium, Jenkins, CI/CD Pipelines, Maven.
- **Agile & Development Practices**: Full Stack Developer, TDD, BDD, Scrum, Git, Agile, AWS.
- **Frameworks:** Java Swing, Pygame, Express.js, Node.js.

PROJECTS

Full-Stack Portfolio Platform– Node.js, Express.js, MySQL, HTML, CSS, JavaScript, Multer, JWT
SOURCE CODE
Designed resume builder using HTML, CSS, JavaScript, and Firebase, enhancing ATS compatibility by 30%.

- Improved frontend accessibility by 100% by building a responsive UI using HTML, CSS, and JavaScript, ensuring seamless experience across all devices.
- Reduced content update time by 70% by implementing a dynamic admin panel with modular project entry and secure file upload.
- Secured 100% backend endpoints using JWT-based session authentication and protected routes for role-based access control.
- Accelerated file handling by 60% with Multer middleware for uploading and managing profile pictures, PDFs, and images, saving their paths in a MySQL database.

Stock Control Application with Low Stock Reporting

SOURCE CODE

Designed Java-based stock management system with real-time low-stock alerts and optimized CSV processing for efficient inventory tracking.

- Implemented Observer Pattern to enable real-time stock alerts via GUI pop-ups, logs, and notifications.
- Optimized CSV processing, reducing lookup time from $O(n)$ to $O(1)$ using Hash Maps.
- Developed Java Swing GUI for interactive stock management with console-based alternative.
- Achieved 90%+ test coverage with JUnit, improving software reliability through TDD & automated testing.

Real-Time Vehicle Object Detection System

SOURCE CODE

 . Built a deep learning-based object detection system using YOLOv8 and YOLOv11.

- Developed an AI-powered object detection system capable of identifying vehicles, pedestrians, and traffic signs in real-time, designed for use in autonomous driving applications.
- Utilized YOLOv8 and YOLOv11 to benchmark performance, achieving 30+ FPS with high mAP accuracy on custom UK road datasets.
- Demonstrated ability to design and deploy high-performance deep learning models in real-world use cases.

Quick Resume – AI-Powered Resume Builder

LIVE DEMO

 Designed resume builder using HTML, CSS, JavaScript, and Firebase, enhancing ATS compatibility by 30%.

- Integrated custom ML model & OpenAI GPT API, improving interview call rates by 40%.
- created email/password & Google OAuth authentication, ensuring 100% data security.
- Incorporated Rich Text Editor (TinyMCE), improving customization efficiency by 20%.

EDUCATION

MSc: Advanced Computer Science, 09/2023 – 07/2025
Teesside University - Middlesbrough

B. Tech: EEE, 07/2017 - 08/2021
Jawaharlal Nehru Technological University -Hyderabad, India

ACCOMPLISHMENTS

- Ranked in the Top 5 in Object-Oriented Programming at Teesside University.
- Led 5-member team in developing an award-winning IoT-based smart streetlight system, reducing energy use by 30%.
- Secured 1st Prize in multiple Technical Quiz competitions.

CERTIFICATIONS

- Java Full-Stack Development – Udemy(18//07/2025).
- Machine Learning & Data Science – Udemy(12/03/2025).
- Java Programing, HTML, CSS, JavaScript – Sololearn(22/06/2022).