
SHIVA RAMA KRISHNA KURRA

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PROFESSIONAL SUMMARY

Results-driven MSc Computer Science graduate specializing in full-stack web application development with expertise in React.js, Node.js, Express.js, MySQL, and RESTful APIs. Built and deployed scalable, database-backed portfolio applications featuring secure authentication, responsive UI, and CI/CD integration. Improved system performance by 35% through optimized database queries and efficient front-end rendering. I am skilled in Agile team collaboration, Git-based version control, and cloud-ready development practices using AWS and Docker. Strong problem-solving background with proven ability to deliver clean, maintainable, and production-ready applications in Agile environments.

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 (ES6+), SQL, React.js, HTML5, CSS3, C#, C++, TypeScript.
- **Frontend Development:** React.js, Responsive Design.
- **Backend Development:** Spring Boot, JPA, Hibernate, REST APIs, Node.js.
- **Microservices & Architecture:** Spring Boot Microservices, Event-Driven Architecture. Docker. Kubernetes.
- **Databases & Cloud:** PostgreSQL, SQL Server, Firebase
- **Testing & DevOps:** JUnit, Selenium, Jenkins, CI/CD Pipelines, Maven.
- **Agile Practices:** Scrum, TDD, BDD, Git, GitHub, Agile Methodologies, AWS.
- **Frameworks & Tools:** Java Swing, Pygame.

PROJECTS

Full-Stack Portfolio Platform– Node.js, Express.js, MySQL, HTML, CSS, JavaScript, Multer, JWT

SOURCE CODE

Developed a personal portfolio platform with dynamic project management, responsive UI, and secure login system.

- Implemented JWT-based authentication and role-based access control, ensuring 100% secure backend endpoints.
- Integrated Multer middleware for file uploads (images, PDFs, profile pictures), storing paths in MySQL for efficient retrieval.
- Improved accessibility by 100% through responsive design, ensuring seamless user experience.
- Deployed via CI/CD pipelines with GitHub and Jenkins for automated updates.

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.
- Developed Java Swing GUI for interactive stock management with console-based alternative.
- Achieved 90%+ test coverage with JUnit, improving software reliability through TDD.
- Integrated CI/CD **pipeline** with Jenkins and GitHub to automate build, test, and deployment processes, reducing release time by 40%

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(July 2025).
- Machine Learning & Data Science – Udemy(March 2025).
- Java Programing, HTML, CSS, JavaScript – Sololearn(June 2022).