

SURYA KANDIKONDA

Hyderabad, India

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suryakandikonda

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Education

Usha Rama College

2017 – 2021

B.Tech in Computer Science and Engineering

Telaprolu, Andhra Pradesh

Technical Skills

Languages: Java, JavaScript, Python

Backend: Spring Boot, Microservices, REST APIs, gRPC, Webhooks

Database & Messaging: MongoDB, Kafka

DevOps: Docker, AWS, Jenkins, Git

Web Development: HTML, CSS, React, Redux, Bootstrap, ExpressJS

Experience

Nala Robotics

September 2021 – Present

Software Engineer

Hyderabad, India

- Developed a multi-cuisine ABB based Robotic chef using Spring Boot & Multithreading for real-time data exchange and decision making. Integrated PLC communication via the Modbus protocol for smooth automation and control.
- Designed Equipments as Models and implemented dependencies between them. Developed CRUD functionality using Spring Boot, JSP, MongoDB Repository to manage the models.
- Improved the core functionality for efficient cooking resource management, enabling the preparation of complex recipes. This led to the launch of a restaurant with robotic chef in the US, generating \$50K in monthly revenue.
- Created Webhooks and REST APIs with JWT & Signature based Security Mechanisms in Spring Boot to let POS systems communicate with the core system, and access robotic chef capabilities.
- Built reporting modules using MongoDB aggregation pipelines, allowing the Quality Team to analyze recipe success & failure rates. Integrated the pipelines with Graphical reports within Spring Boot for seamless user experience.
- Led a team of 3, overseeing task delegation, conducting code reviews, and facilitating knowledge-sharing sessions to enhance team efficiency and project alignment.
- Identified a testing bottleneck in my team during my first year and designed an automated solution using Selenium and Python to streamline the process. Developed a program to verify database model dependencies for accuracy, resulting in a 95% reduction in testing time compared to manual methods.

Projects

E-Commerce Microservices Application | *Spring Boot, MongoDB, Kafka, Saga Orchestration Pattern, Docker*

- Developed a e-commerce application using Spring Boot, with a focus on microservices architecture.
- Implemented Saga Orchestration pattern using Kafka for managing the Distributed Transactions. Developed Compensation Transactions to handle failure cases.
- Implemented API Gateway using Spring Cloud, Circuit Breaker Pattern using resilience4j, & Data is stored in MongoDB using Database per Service pattern.
- Developed the Docker containers for the Services, MongoDB, Kafka.

Project Management Tool | *ReactJS, ExpressJS, MongoDB*

- Developed Project Management Tool in MERN Stack with functionalities like task creation, assigning tasks to team members, storing the task progress.
- Utilized React UI Frameworks like Bootstrap, MaterialUI for responsive & modern designs.
- Utilized the ExpressJS for the backend, and implemented JWT Authentication using PassportJS.

Android App for College | *Java (Android), XML, Firebase*

- Developed an Android App for my college with functionalities like tracking live location of college bus, notifications related to college events, publishing the students achievements.
- Used Google Firebase for the data storage, & Designed UI using Android Studio default tools.

Achievements

- Recognized as a top 10 finalist out of 1,500+ teams in the Automathon Hackathon hosted by Microsoft and Automation Anywhere. Developed an AI bot capable of simulating job interviews.
- Secured first place in multiple project expos for innovative Web and Android applications.