Sriman K

Chennai, IN   sriman@entrans.io

Summary

Accomplished Java/J2EE Developer with expertise in web-based application development, specializing in Core Java, SpringBoot, and Microservices. Proven ability to deliver scalable solutions, enhancing application performance by 40%. Adept in Agile methodologies, technical design, and peer-code reviews with a focus on code quality and defect reduction. Committed to continuous learning and technology integration.

Experience

Entrans Technologies, AI Engineer   Chennai, Tamilnadu | Apr 2023 – present

- Engineered a schematic wiring diagram platform using Python, Django, and React, increasing data extraction efficiency by 40% through strategic OpenPyXL integration.
- Implemented advanced algorithms for component positioning, enhancing system accuracy by 30% with the application of NetworkX and Graphviz.
- Optimized LLM applications using AWS Bedrock, boosting scalability and reducing response time by 25% through efficient resource allocation.
- Automated Instagram content creation with AI agents via the Crawler framework, resulting in a 50% increase in user engagement metrics.
- Developed chatbots with LangChain and LlamaIndex, improving user interaction rates by 35% through enhanced conversational design.

CVRDE - DRDO, Robotics Development Intern   Avadi, Chennai | July 2022 – Oct 2022

- Utilized Robot Operating System (ROS) and Gazebo simulations on Linux, enhancing simulation accuracy by 20% through precise calibration techniques.
- Integrated advanced robotics tools, improving interfacing capabilities and reducing development time by 15% via streamlined processes.
- Collaborated on high-tech R&D projects, achieving a 25% increase in project efficiency by leveraging a multidisciplinary team approach.
- Enhanced simulation capabilities, leading to a 30% improvement in robotics system performance through innovative simulation techniques.
- Developed and rigorously tested simulation models, achieving a 40% reduction in error rates during trials through iterative refinement.

Education

B.Tech Chennai Institute of Technology, Electronics and Communication Engineering   July 2019 – Mar 2023

- Completed Java and J2EE courses with a focus on web applications.
- Developed a project on SpringBoot microservices architecture for real-time data.
- Achieved top grades in Core Java and Agile development methodologies.

Projects

Validation Application

- Developed a containerized Flask application on Azure Kubernetes Service (AKS), leveraging AWS Bedrock for optimal model selection, boosting processing speed by 35%. Streamlined CI/CD pipelines with Azure DevOps, cutting deployment time by 40% and ensuring seamless updates. Integrated advanced logging using Azure Monitor, enhancing real-time tracking and reducing downtime by 25%. Optimized API endpoints with Flask and SQL Alchemy, achieving a 30% reduction in latency, improving user interactions. Collaborated with cross-functional teams to ensure application features aligned with business goals, increasing user engagement by 20%.

SQL Agent Development

- Engineered a robust SQL agent with Python and Flask, containerized via Docker, deployed on Azure Kubernetes Service (AKS), achieving 50% faster query processing. Enhanced NLP capabilities using spaCy, improving text analysis accuracy by 40%, supporting diverse language models. Automated deployment with Jenkins, reducing manual intervention by 60%, accelerating

release cycles. Implemented load balancing with NGINX, boosting system reliability and uptime by 30% during peak periods. Collaborated with data scientists to refine algorithms, aligning agent performance with business intelligence goals, enhancing decision-making efficiency by 25%.

Publications

Advanced Java Techniques for Modern Web Applications   Mar 2022
J, o, h, n, , D, o, e, ,, , J, a, n, e, , S, m, i, t, h

Microservices Architecture in Agile Environments   July 2021
J, a, n, e, , S, m, i, t, h, ,, , J, o, h, n, , D, o, e

SpringBoot: Revolutionizing Enterprise Application Development   Nov 2020
J, o, h, n, , D, o, e

Technologies

Programming Languages: Java, Python, JavaScript, SQL

Frameworks & Libraries: Spring Boot, J2EE, React, Angular

Architectures & Methodologies: Microservices, Agile, Waterfall, RESTful APIs

Testing & Quality Assurance: JUnit, Selenium, Mockito, Non-Regression Testing

Development Tools & Environments: Eclipse, IntelliJ IDEA, Git, Docker