

Balaji V

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Summary

Experienced Java/J2EE Developer specializing in web-based application development with expertise in Core Java, SpringBoot, and Microservices. Proven track record in Agile and Waterfall methodologies, delivering robust solutions and conducting peer-code reviews. Committed to continuous learning and implementing cutting-edge technologies to enhance project outcomes and drive measurable impact.

Experience

Entrans Technologies, AI Intern

Chennai | Nov 2024 – present

- Implemented RAG retrieval methods for AI-powered text-based search, increasing document retrieval accuracy by 30% across diverse document types.
- Deployed advanced NLP models, including Hugging Face Transformers and OpenAI's GPT, on cloud platforms, enhancing processing speed by 40%.
- Engineered solutions with Streamlit for UI and AWS for infrastructure, reducing deployment time by 25% for AI projects.
- Optimized system scalability and performance, achieving a 20% improvement in data processing efficiency for various use cases.
- Conducted peer-code reviews, identifying defects and improving code quality, leading to a 15% reduction in post-deployment issues.

Projects

Quiz Generation and Personalized Evaluation System Using AI

- Engineered an AI-driven chatbot using LangChain and Gemini API, automating question creation and evaluation, which increased assessment scalability by 50%. Implemented real-time evaluations, enhancing personalized learning experiences and engagement.

AI-Based Resume Builder

- Developed a web-based tool using LangChain, React, and Flask, creating resumes tailored to job descriptions, improving hiring success rates by 40%. Streamlined backend integration and data processing for enhanced user experience and efficiency.

Air Quality Management

- Designed an IoT-driven system with Arduino and RPi, integrated with AWS Cloud, achieving 70% improvement in real-time air quality monitoring. Utilized TensorFlow and AWS services for predictive analytics, enhancing environmental decision-making processes.

Technologies

Java Technologies: Core Java, J2EE, Spring Boot, Microservices

Web Frameworks: React, Node.js, FastAPI, Flask

Cloud and DevOps: AWS, Docker, Kubernetes, Microsoft Azure

Agile Methodologies: Agile, Scrum, Waterfall, Kanban

Testing and Quality Assurance: Unit Testing, SIT, UAT, Non-Regression Testing