MERCY ADEBAYO

SOFTWARE ENGINEER | FULL STACK DEVELOPER | CLOUD-NATIVE SYSTEMS

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Versatile and impact-driven Software Engineer with experience designing and building scalable full-stack, cloud-native, and AI-integrated systems. Proficient across the stack in Python, Java, React, Node.js, C++, and containerized environments (Docker, Kubernetes). Adept at developing REST/GraphQL APIs, deploying to AWS/Azure, and integrating machine learning pipelines and DevOps best practices. Proven success across AI, finance, e-commerce, and mapping technology sectors. Thrive in Agile teams driving innovation, automation, and performance.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, TypeScript, C++, C#, Go, Bash, SQL
- **Frontend:** React.js, Angular, Material UI, HTML5/CSS3
- **Backend:** Node.js, FastAPI, Flask, Spring Boot, Django, Express, .NET Core
- **Cloud Platforms:** AWS (Lambda, EC2, S3), Azure (App Services, AKS), GCP (BigQuery, Vertex AI)
- **DevOps & CI/CD:** Docker, Kubernetes, GitHub Actions, Terraform, Jenkins, Azure DevOps
- **Data & ML:** PostgreSQL, MongoDB, Redis, MySQL, Snowflake, TensorFlow, PyTorch, OpenAI API
- **Tools:** Postman, Swagger, Git, JIRA, Prometheus, Grafana, Figma, Power BI
- **Practices:** Agile/Scrum, Microservices, TDD, Secure Coding, API Security, Accessibility Standards

WORK EXPERIENCE

Software Engineer   January 2024 – December 2024
DataAnnotation
- Built LLM fine-tuning pipelines and RAG systems using Python, C#, and Node.js to automate document understanding, reducing manual review time by 40%.
- Deployed FastAPI microservices to AWS with Docker and GitHub Actions, improving scalability and deployment speed.
- Integrated Postman and Swagger for REST API documentation and testing, increasing QA coverage and reducing bugs.
- Implemented feedback loops and vector search to enhance retrieval accuracy and AI-generated insights.
- Contributed to cloud-native architecture using AWS Lambda, S3, and API Gateway, optimizing system performance and cost.

Full Stack Developer   May 2023 – Present
Self-employed
- Built full-stack applications using React, Spring Boot, and Flask tailored for real-time data tools, dashboards, and customer portals.
- Developed tools with event-driven architecture and Kafka, enabling live analytics and decision-making.
- Designed STT–LLM–TTS pipelines for voice-enabled services using OpenAI APIs, improving accessibility for users with speech input.
- Delivered production-grade deployments via GitHub Actions, Docker, Kubernetes, and integrated monitoring tools.
- Enhanced client platforms with AI features like summarization, smart search, and chatbots, resulting in measurable gains in user engagement.
- Migrated legacy monoliths to microservices with observability and improved security posture using Azure and Kubernetes.

Full Stack Engineer   December 2021 – November 2022
Binasoftech IT Solutions
- Developed microservices using Spring Boot and Node.js for financial applications, improving uptime and feature delivery speed.
- Built responsive UIs with React.js and Material UI, leading to a 30% boost in user satisfaction based on client feedback.
- Integrated RESTful and GraphQL APIs, improving backend/frontend synergy and simplifying data access.
- Optimized MySQL and MongoDB data models, reducing query latency and supporting scalability.
- Designed React dashboards powered by Node.js and Spring Boot services, streamlining reporting workflows.
- Delivered CI/CD pipelines with GitHub Actions and containerized deployments, cutting release cycle time by 35%.

EDUCATION

Advanced Diploma in Software Engineering Technology   May 2023 – December 2024
Centennial College
Bachelor of Science Honours in Computer Science with specialization in Cybersecurity   February 2022 – December 2022
University of Johannesburg
Bachelor of Science in Computing   February 2018 – December 2020
University of South Africa