JOSIAH MBAO

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Education

BSc in Software Engineering | United States International University – Africa | Nairobi, Kenya *Expected Graduation: September 2026*

Technical Skills

- **Languages & Frameworks:** Python (FastAPI, Django), Go, Bash, SQL
- **Cloud & DevOps:** Microsoft Azure, Docker, Kubernetes, CI/CD (GitHub Actions, GitLab), Prometheus, Grafana
- **AI & Machine Learning:** Computer Vision (YOLOv8, DeepSORT), Data Preprocessing, Pandas

Software Engineering Experience

Freelance Software Engineer | Fiverr | *Apr 2023 – Present*

- Engineered and delivered 10+ custom software solutions for international clients, focusing on backend development, AI integration, and process automation, achieving a consistent 5-star client rating.
- Designed and deployed containerized Python applications on **Microsoft Azure**, utilizing Docker and CI/CD pipelines to ensure seamless and repeatable deployments.

Full Stack Engineering Intern | Farmz2U | *March 2024 – May 2024*

- **Reduced API latency by 15%** by refactoring Django REST endpoints and optimizing database queries, directly improving the user experience for farmers on the platform.
- Championed code quality and best practices by implementing features using Test-Driven Development (TDD) and participating in rigorous code reviews via GitLab.
- Integrated a critical email notification system into the Django backend to enhance platform-to-user communication.

Leadership & Community

Cloud & DevOps Lead | Google Developer Student Club (GDSC) | *May 2023 – Present*

- Mentors a 200+ student community by organizing and leading hands-on workshops on cloud-native technologies, including Docker, Kubernetes, and **Microsoft Azure**.

Projects

Ona Vision – Real-Time Object Detection & Monitoring System | [GitHub](#)

- Architected a real-time object detection system (Python, YOLOv8) and deployed it as a scalable, cloud-native solution using **Docker, Kubernetes, and Prometheus**.

Go Reverse Proxy & Load Balancer | [GitHub](#)

- Implemented a high-concurrency Go reverse proxy using goroutines, then containerized and deployed it on **Kubernetes** to showcase end-to-end DevOps skills.

Certifications

- ***Microsoft Certified:*** *Azure Fundamentals (AZ-900) | Certified Kubernetes Administrator (CKA) – In Progress*