

Mbugua Maxwell

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Final year Computer Science student with a solid foundation in programming and DevOps practices, seeking a DevOps Internship to gain hands-on experience with modern cloud and automation tools. Familiar with containerization, CI/CD pipelines, and infrastructure as code. Adept at collaborating with cross-functional teams and solving real-world tech problems. Passionate about cloud technologies, system reliability, and continuous learning.

Education

Bachelor of Science in Computer Science

Karatina University

Expected Graduation: September 2025

Technical Skills

DevOps & Cloud Tools:

Docker, Kubernetes, Jenkins, Git, GitHub, GitLab, Terraform, AWS, Azure

Programming & Scripting:

Python, Bash, PowerShell (basic), JavaScript (React)

Monitoring & Logging:

Prometheus, Grafana, (basic)

Operating Systems:

Linux/Unix (comfortable with CLI)

Networking & Other:

TCP/IP, DNS, Load Balancing, CI/CD practices, Infrastructure as Code (IaC)

Soft Skills

- Analytical thinking & problem-solving.
- Adaptability & continuous learning.
- Collaboration & teamwork.
- Technical documentation.
- Time management & organization.

Projects

Multi-Cloud Application Deployment

Problem: Deploying a scalable web application across different cloud providers while maintaining consistency.

Solution: Designed and deployed an application on both AWS and Azure using IaC and containerization.

How:

- Used **Terraform** to provision infrastructure on AWS and Azure.
- Containerized the app using **Docker** and deployed via **Kubernetes**.

- Implemented CI/CD pipeline using **Jenkins** and **GitHub Actions** for automation.
- Ensured availability and scaling through load balancing and monitoring.

Farm Yield Prediction System

Problem: Small-scale farmers lacked tools to accurately forecast their farm yield, making it difficult to plan resources.

Solution: Developed a machine learning model and a web-based tool to predict yield based on environmental and historical data.

How:

- Built the prediction model using **Python** and integrated it with a **React** frontend.
- Hosted the application on **AWS EC2** and stored data using **S3**.
- Used **Git** for version control and deployed updates using basic CI/CD practices.
- Designed UI/UX to make the tool farmer-friendly and accessible.

Experience

IT Support Intern – State Law Office

Jan 2023 – Apr 2023 Nairobi, Kenya

- Provided first-line technical support for over 100 staff, resolving hardware, software, and network issues.
- Assisted in managing user accounts, email configurations, and permissions.
- Participated in upgrading office systems and supporting basic IT infrastructure tasks.
- Maintained documentation of support issues and resolutions.

Freelance Developer

2022 – Present | Remote

- Built and deployed small-scale web apps for local businesses and startups using Python and React.
- Implemented automation scripts and CI/CD pipelines for personal and client projects.
- Provided consultations on bare cloud deployments and DevOps tooling.
- Managed repositories, deployments, and basic monitoring for client web apps.

Certifications

- AWS Cloud Practitioner.
- DevOps Fundamentals.
- Introduction to Kubernetes.