

VINCENT OMONDI OWUOR

Cloud Support | IT Support | Junior Cloud Engineer

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Aspiring Cloud Engineer with a strong foundation in **IT Support** and **Distributed Systems**. Passionate about reliability engineering (retries, idempotency, observability). Hands-on with **AWS core services**, Linux troubleshooting, and networking. Eager to apply systems-thinking in a technical support or infrastructure role.

TECHNICAL SKILLS

Cloud & Infra	AWS (Lambda, S3, DynamoDB, VPC, EC2, IAM), Terraform (Basic IaC), Docker, Linux Admin
Reliability	Circuit Breakers, Idempotency, Backoff Strategies, Dead Letter Queues, Eventual Consistency
Support	DNS, HTTP/S, TCP/IP, SSH, VPN Config, L1-L4 Troubleshooting, Structured Cabling
Dev & Tools	Python, TypeScript, SQL (PostgreSQL), Git, GitHub Actions, Bash Scripting

SYSTEMS ENGINEERING PROJECTS (LEARNING LABS)

M-Pesa Integration (Saga Pattern Lab)

React, Node.js, Daraja API

- Designed "verify-before-process" logic to handle payment failures and network timeouts (unhappy paths).
- Implemented **idempotency keys** to prevent double-charging users during network replays.
- Created a polling mechanism to reconcile transactions when callbacks are lost/delayed.

SafariSmart (Fault Tolerance Lab)

Django, PostgreSQL, AI Integration

- Built a "Circuit Breaker" to handle AI service failures, defaulting to cached content to preserve uptime.
- Developed strict Zod schema validation to catch malformed JSON responses at the API boundary.
- Deployed on hybrid architecture (Render + S3) to simulate microservice decoupling.

AWS 3-Tier Architecture (IaC)

Terraform, AWS VPC

- Provisioned a VPC with public/private subnets and route tables using Terraform.
- Configured **Security Groups** (least-privilege) to isolate the database layer from the internet.
- Implemented a Bastion Host pattern for secure administrative access to private instances.

ServerlessNexus (Cloud Consulting)

Django, Vercel

- Deployed Django in a serverless environment to analyze cold start behaviors and filesystem limits.
- Optimized DB connection pooling to prevent "thundering herd" issues during concurrent invocations.

PROFESSIONAL EXPERIENCE

Software Development Intern

May 2025 - Aug 2025

Optimum Computer Systems | Nairobi

- Contributed to "EduCore" ERP web interface; assisted in debugging race conditions during student registration.
- Learned how ACID transaction isolation levels prevent data corruption in concurrent systems.
- Documented API endpoints and schemas to streamline onboarding for new developers.
- Participated in Agile stand-ups and code reviews.

IT Support Attaché (Network Infrastructure)

May 2024 - Aug 2024

Masinde Muliro University (MMUST) | Kakamega

- Troubleshooting:** Resolved connectivity for 500+ users by tracing faults from devices to switches.
- Physical Networking:** Diagnosed/replaced faulty Ethernet cables; terminated RJ45 connectors.
- Config:** Assisted in rack-mounting and basic configuration of Cisco routers/switches.
- Support:** Provided technical support for Windows/Linux workstations and printers.

EDUCATION & CERTIFICATIONS

B.Sc. Information Technology (Expected 2026)

Masinde Muliro University

AWS Cloud Practitioner Training (Gold Graduate)

AWS Re/Start (2025)

Intensive bootcamp on Linux, Networking, Python, AWS Core Services.

Certifications: AWS Certified Cloud Practitioner (2025) • Oracle Cloud Foundations (2025) • Oracle AI Foundations (2025)