STEPHEN MUTETI

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Nairobi, Kenya

PROFESSIONAL SUMMARY

Security-conscious Software Engineer specializing in distributed systems, backend infrastructure, and cloud-scale reliability. Experienced in designing and operating high-performance, fault-tolerant platforms with strong emphasis on security, observability, and performance optimization. Skilled at diagnosing complex issues in distributed environments and building scalable systems that balance usability, stability, and protection.

SKILLS

- **Languages and Systems:** Python, Go, C++, SQL, Linux
- **Distributed Systems and Cloud:** AWS, Kubernetes, Docker, Terraform, Helm
- **Automation and DevOps:** CI/CD, IaC (Terraform, Ansible), Pytest, Profiling
- **Software Design:** Algorithms, Data Structures, Multithreading, System Profiling, Design Patterns
- **Observability and Security:** ELK Stack, Prometheus, Grafana, TLS/SSL, JWT, CyberArk PIM, DAM

WORK HISTORY

TRENDGRID   Remote, United States
Software Engineer (Backend, Infrastructure and AI Systems)   02/2025 - Present
- Designed and deployed **scalable AI model training pipelines**, enabling efficient distributed training and resource-aware scheduling across clusters.
- Built internal tools to **monitor system performance and security**, improving visibility into model and node operations.
- Collaborated with research and infrastructure teams to **translate security and compliance requirements into engineering solutions**.
- Led **cross-team architecture reviews**, ensuring alignment between AI workloads, compute orchestration, and data governance.
- Drove optimization efforts reducing compute overhead by 20% through smarter workload distribution and profiling.

HUAWEI   Nairobi, Kenya
Software Engineer (Systems and Security Architecture)   07/2024 – 02/2025
- Designed and deployed **centralized logging and activity monitoring (ELK, CyberArk, DAM)** across distributed environments.
- Implemented secure API gateways and enforced **end-to-end encryption** and access control at the system and user levels.
- Enhanced **Mobile Money 2.0 platform** reliability and latency through system tuning and parallelized data ingestion pipelines.
- Collaborated with global security teams to **audit, patch, and harden** production systems against identified vulnerabilities.

OZONELEAD   Nairobi, Kenya
Software Engineer (Full Stack and Infrastructure)   01/2022 - 06/2024
- Engineered a cloud-native **real estate data platform** using AWS, Kubernetes, and Terraform with full CI/CD automation.
- Deployed **observability pipelines** (Prometheus, Grafana, OpenSearch) to detect, trace, and mitigate performance bottlenecks.
- Developed and optimized **microservices for data ingestion and analytics**, enabling near real-time insights via AWS Glue and Redshift.
- Enhanced infrastructure resilience, reducing production incidents by 40% through better fault isolation and proactive alerting.

PROJECTS

BlazeAlert (Fire Alert System)   2023
Engineered ultra-low latency alert propagation in rural networks with weak connectivity.
Tech Stack: **Flask, PostgreSQL, Kubernetes, AWS**

AWARDS AND CERTIFICATIONS

- Project Management - 2024
- Cyber Security Certificate - 2024
- First Place, National Problem Solving Challenge - 2022
- Excellence in Secure Fintech System Architecture - 2024

EDUCATION

Moi University   Eldoret, Kenya
Bachelor of Engineering (Software Engineering Major)   08/2017 - 12/2023
GPA: Second Class Honours (Upper Division)