

STEPHEN MUTETI

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SUMMARY

Backend and systems engineer with strong experience designing secure, scalable platforms for fintech, mobile money, and distributed systems. I have led delivery of high availability microservices, cloud-native architectures, and real-time financial workflows used in production environments. My background includes mobile money systems, API security, event-driven designs, and AWS-based infrastructure. I focus on reliability, compliance, observability, and engineering excellence across the software lifecycle.

EXPERIENCE

Software Engineer, Backend and Infrastructure <i>Algorithmic Sciences, United States</i> <ul style="list-style-type: none">Built a secure multithreaded file search service as a Linux daemon with TLS that reduced lookup latency by 30%.Benchmarked seven search algorithms to optimize performance under varying load conditions.Developed CI/CD pipelines and automated testing using Pytest to support consistent deployments.Built internal infrastructure tooling to help engineering teams deploy and scale distributed systems reliably.Performed code reviews to ensure security, quality, and consistency with engineering standards.	02/2025 - Present
Mobile Money Systems and Security Engineer <i>Huawei, Kenya</i> <ul style="list-style-type: none">Delivered key components of the Mobile Money 2.0 system including microservice architecture, gRPC service flows, SOAP integrations, database design, and Kubernetes-based deployments.Implemented centralized logging with the ELK stack and delivered a Database Activity Monitoring solution that reduced licensing costs and improved SLA compliance.Integrated CyberArk PIM for secure credential management and improved overall security posture.Conducted API security and penetration testing to validate compliance with customer and industry standards.Led operational readiness workshops with the client to ensure successful rollout and long-term system stability.Worked closely with customers to explain design choices around Docker, Kubernetes, and high availability patterns.	07/2024 – 02/2025
Software and Security Engineer <i>AcademicHub, United States</i> <ul style="list-style-type: none">Implemented a payment integration system using card payments, bank transfers, Kafka pipelines, and webhooks.Designed a microservices architecture for the platform running on AWS with secure and resilient deployments.Built realtime user experience components using WebSockets and Flink and added AI-based content flagging to protect users.Implemented Role Based Access Control across admin, staff, technical teams, clients, and writers.Set up CI/CD pipelines using GitHub Actions and Jenkins for automated releases.	07/2023 - 06/2024
Software Engineer, Backend and Cloud Infrastructure <i>Ozonelead, Kenya</i> <ul style="list-style-type: none">Designed and implemented a Spring Boot microservices architecture for a real estate platform deployed on AWS.Built monitoring and alerting systems with OpenSearch, Prometheus, and Grafana to support incident detection.Developed a BI pipeline with Glue, Redshift, S3, and Tableau to support data-driven decisions for business teams.Automated deployments using Kubernetes workflows and CI/CD pipelines.	01/2022 - 06/2023

SKILLS

<ul style="list-style-type: none">Backend and Distributed Systems: Java Spring Boot, Python, gRPC, REST APIs, SOAP, Kafka, Webhooks, MicroservicesCloud and Infrastructure: AWS (EC2, S3, IAM, CloudWatch, Redshift, Glue), Kubernetes, Docker, Terraform, Helm, LinuxDevSecOps and CI/CD: GitHub Actions, Jenkins, GitLab CI, Pytest, SonarQube, OpenSearch, ELK Stack, Prometheus, Grafana	<ul style="list-style-type: none">Security and Compliance: TLS, RBAC, OAuth2, CyberArk PIM, DAM, API security testingData and Storage: PostgreSQL, MySQL, Redis, S3, RedshiftArchitecture and Documentation: System design, distributed tracing, logging, monitoring dashboards, solution documentation
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AWARDS & CERTIFICATIONS

<ul style="list-style-type: none">Project Management - 2024Cybersecurity Certificate - 2024	<ul style="list-style-type: none">First Place, National Problem Solving Challenge - 2022Excellence in Secure Fintech System Architecture - 2024
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EDUCATION

Bachelor of Engineering (Software Engineering Major) <i>Moi University</i>	08/2017 - 12/2023
AI in Software Engineering <i>PLP Academy</i>	07/2025 - 12/2025