

**ELIJAH WANDIMI**  
**Software Engineer**

• [info.elijahwandimi@gmail.com](mailto:info.elijahwandimi@gmail.com) • <https://github.com/etumaru> • <https://www.linkedin.com/in/etumaru>

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## Professional Summary

Experienced Software Engineer specializing in secure, scalable backend systems and high-availability services. Skilled in API design, distributed systems, production deployments at scale, and enterprise-grade delivery through robust monitoring, testing, and code quality practices.

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## Core Skills & Tools

**Languages:** Go, Java, Python, SQL, C/C++

**Cloud & Security:** GCP, OAuth, JWT and IAM

**Databases:** MySQL, PostgreSQL, Redis, MongoDB

**APIs & Architecture:** REST, gRPC, Microservices, Event-Driven Systems, RabbitMQ, Kafka

**Observability & Quality:** Distributed Tracing, Unit/Integration Testing, Code Reviews

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## Professional Experience

**Norm Kickoff Kenya — Software Engineer** (*April 2025 – Present*) *Stack: Go, Java, Python, MySQL, Redis, RabbitMQ, gRPC, Docker, GCP, Kafka*

- Designed and deployed high-throughput Go microservices using event-driven architecture, serving 1M+ users at tens of thousands of requests per day.
  - Fixed RabbitMQ connection pool resource leaks across two Python payments services; corrected log initialization to run at startup rather than per-request, restoring visibility into startup errors and warnings; and decoupled provider-specific amount limits from hardcoded values into configurable per-provider settings, preventing limit misapplication across providers.
  - Resolved unhandled RabbitMQ disconnection in Java sportsbook service, implementing graceful degradation so the UI surfaces a provider-defined "no available matches" state rather than showing stale odds during outages.
  - Refactored gateway to gRPC and RabbitMQ, doubling transaction throughput and reducing latency.
  - Integrated external game providers for low-latency wallet and bet-settling operations across crash and casino games with more than 5K bets per minute at peak hours.
  - Rewrote payments service from Python to Go, improving throughput and reducing transaction latencies and deployed via docker.
  - Contributed to a production-grade Go framework for bootstrapping secure microservices across the org.
  - Designed security-first architecture with concurrent-safe logging, Redis session management, and distributed tracing across 5+ production systems.
  - Migration from compose deployments to K8S + ArgoCD + git workflows deployment for gaming services.
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**Vertex Hub Group Ltd — Software Engineer** (Jan 2024 – March 2025) Stack: Go, Java, Python, PostgreSQL, Redis, MySQL, React, Flutter

- Built secure financial backend for a digital SACCO platform covering loans, deposits, and withdrawals with full auth and audit trails.
  - Integrated M-Pesa payment gateway with encryption, fraud detection, and compliance logging.
  - Deployed USSD transactional system with secure session management, improving rural customer engagement.
  - Developed NFC contactless mobile payments application with end-to-end encryption.
  - Optimized PostgreSQL performance via query tuning and indexing, reducing API latency.
  - Achieved 90%+ code coverage through unit, integration, and security testing.
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**Meliora Technologies — Software Engineer Intern** (Jun 2023 – Dec 2023) Stack: Java, PostgreSQL, Docker, JavaScript \* part of industry placement in final year \*

- Co-developed a secure coaching platform with microservices, OAuth 2.0, and JWT authentication.
  - Contributed to a multi-tenant CMS backend with RBAC and tenant isolation, deployed via Docker.
  - Established structured logging and performance monitoring practices.
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## Education

**BSc Software Engineering** — Multimedia University of Kenya ( Sep 2019 – Oct 2023)

Relevant coursework: Systems Engineering, Algorithms, Software Architecture, Database Management, Computer Security, AI.

- Vice Chancellor's Award for leading MMU CIT Club as Program Manager; awarded *Most Active Club* (2022–2023).
- 2nd place nationally — Zindi Africa Kenya Sign Language Classification Competition (Nov 2022), building an ML solution for sign language interpretation.