

# EUGENE LUMWAJI

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## Education

**Murang'a University Of Science and Technology**, Sept 2024 - Apr 2028

**Bachelor of Science in Software Engineering.**

- **Key Courses:** OOP in C++, System Analysis And Design, Algorithms, Operating Systems, Data Structures

## Skills

**Languages:** Python, TypeScript, JavaScript, C++, SQL, Kotlin

**Technologies:** React, Next.js, Node.js, Capacitor (Android), MQL5, Pandas, Git, Docker, Vercel, Railway, Bash, Twilio, Numpy

## Projects

### FINANCE-TRACKER

*Personal Project — Shipped to production, open for beta testing (pre-Play Store) · 250+ commits*

- Shipped a Capacitor/Android personal finance-tracking app to production, built for multiple users rather than personal use; open for beta testers ahead of a public Play Store release.
- Implemented custom, in-house Google authentication with a self-send SMS flow for phone-number ownership verification, avoiding recurring paid OTP-gateway costs.
- Built M-Pesa PDF statement import with automatic SMS-based statement-password detection and cross-source transaction deduplication (SMS scan, statement import, manual entry) keyed on M-Pesa transaction reference codes.
- Implemented a simple cloud data synchronization allowing one to access their data across various devices.

### ASIAN-POE-RANGE MODEL

*Personal Project — In testing · 8,200+ optimization passes analyzed*

- Built a systematic algorithmic range-breakout trading strategy for USD/JPY as an Expert Advisor in MQL5; ran and compared two Strategy Tester optimization sweeps totaling 8,200+ parameter combinations.
- Applied a three-stage ranking framework (hard-gate filters, composite scoring, neighborhood-stability checks); identified and excluded a statistically invalid top-ranked pass (a single-trade result with an inflated score) before drawing conclusions.
- Best validated configuration to date: Sharpe ratio **7.64**, profit factor **1.24**, 26.8% max drawdown across **245** trades; walk-forward validation in progress.

### CHAT APPLICATION

*Personal Project*

- Built a full-stack chat application end-to-end, from database schema design through application logic, to practice system design
- React/Vite frontend with a Node.js backend and MongoDB; deployed via Vercel and Railway

### CALL SCREENER

*Personal Project — In testing*

- Built an AI-powered call-screening application using machine learning and NLP to analyze and categorize incoming calls in real time, reducing spam and unsolicited-call disruption
- Implemented core screening logic; backend integration in progress