

LEONARD JOMBO

BACKEND SOFTWARE ENGINEER

Go · Distributed Systems · APIs · Application Security

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PROFESSIONAL SUMMARY

Backend Software Engineer with production experience building REST APIs, real-time WebSocket services and relational database systems in Go. Built **Kairo**, a full-stack collaboration platform with concurrent board updates at sub-100ms latency and secure JWT/RBAC API layers for a production farm-management system at Mawora. Brings an offensive-security lens to backend engineering through API security testing, vulnerability research and secure SDLC practices. Selected for the Princeton in Kenya 2026 Global Seminar and leads cybersecurity workshops for 100+ students at Maseno University.

TECHNICAL SKILLS

Languages: Go, Python, TypeScript/JavaScript, SQL, Bash, Dart

Backend & Systems: REST APIs, WebSockets, Microservices, Distributed Systems, Concurrency/Goroutines, Fiber, Gin

Databases & Storage: PostgreSQL, SQLite, Supabase, NeonDB, query optimization, schema design

DevOps & Cloud: Docker, Git/GitHub, CI/CD, AWS, Linux administration, Postman

Security: OWASP Top 10, API security testing, Secure SDLC, JWT/OAuth2, Burp Suite, Metasploit, Wireshark, Nmap

PROFESSIONAL EXPERIENCE

Software Developer Intern — Mawora Poultry Farm

May 2025 – Sep 2025

- Built and deployed full-stack farm-management applications in Go, PostgreSQL and Flutter, replacing paper-based inventory and daily-operations tracking with a single source of truth.
- Designed secure REST APIs with JWT authentication, RBAC and input sanitization; rebuilt transaction logging to remove redundant manual record-keeping.

Cybersecurity Intern — Redynox

Feb 2026 – Apr 2026

- Audited production REST APIs, identifying BOLA, authentication bypasses and input-validation flaws before customer exposure.
- Applied OWASP API Security Top 10 methodology across distributed microservices; documented findings and remediation patches.

Cybersecurity Researcher — HackerOne

Oct 2025 – Present

- Analyze backend logic, API boundaries and access-control edge cases in vulnerability disclosure programs using reconnaissance, fuzzing and manual testing.

Cybersecurity Lead — GDSC, Maseno University

Sep 2025 – Present

- Run hands-on ethical-hacking, secure-coding and threat-modeling workshops for 100+ students; organized industry cybersecurity talks.

IT Facilitator — Mulisa Education Centre

Jan 2023 – Present

- Teach foundational programming and introduce cybersecurity awareness and safe digital practices to young learners.

FEATURED PROJECTS

Kairo — Real-Time Multi-User Project & Task Tracker — Go, React, PostgreSQL, WebSockets

Architected collaborative Kanban boards, timelines and live presence; engineered a bidirectional Go WebSocket hub broadcasting concurrent updates at sub-100ms latency; designed PostgreSQL schemas with transactions, constraints and indexing. *Live: kairo.davida.ink*

Mawora — Mobile Farm Management Application — Flutter, Dart, Supabase

Built a mobile-first platform for farm owners and field workers to track day-to-day agricultural operations. *GitHub: github.com/jomboi8/FarmOperationsRelease*

Dawida — Offline-First Mobile App & Sync Engine — Flutter, Go, Supabase

Built a local-first SQLite caching layer with background delta synchronization so offline edits automatically sync when connectivity returns.

EchoStrike — Network Monitoring & Threat Detection — Go, Packet Analysis, Wireless Security

Built a live packet monitor and wireless IDS with modular anomaly detection, port-scan/802.11 signatures and real-time alerts. *GitHub: github.com/jomboi8/EchoStrike*

TaitaCLIR — Cross-Lingual Semantic Search Engine — Python, NLP, Information Retrieval

Built an English-to-Taita semantic-search pipeline using NLP tokenization and cross-lingual matching over structured JSON corpora for Princeton University Global Seminar.

EDUCATION & GLOBAL PROGRAMS

BSc in Computer Science — Maseno University, Kenya

2022 – 2026

Focus: Cybersecurity, AI, Software Development, Cloud Computing, Distributed Systems, Databases, Networks

Princeton in Kenya Global Seminar — Princeton University

2026

Focus: Natural Language Processing & Technologies for Low-Resourced Languages

CERTIFICATIONS & TRAINING

Cisco Networking Academy: Introduction to Cybersecurity & Networking Basics (2025) · Udemy: Backend Development MasterClass — Golang, Databases, Cloud (2025) · PortSwigger Web Security Academy: SSRF, Authentication & Access Control Labs