

Austin Odhiambo Makachola

Systems Developer | Enterprise & Institutional Software Systems

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Professional Summary

Systems Developer focused on building **infrastructure-grade reliability** into every stage of the software lifecycle. I bridge the gap between development and operations by architecting secure, scalable systems on Node.js/React and Linux environments. Rather than just writing code, I prioritize system integrity through robust API development, deployment automation, and strict access control protocols. Known for translating complex compliance requirements into streamlined technical solutions, ensuring that cross-functional teams can operate on a stable, secure foundation.

Technical Skills

Core Engineering & Architecture

- **System Design:** Scalable & Secure Architecture, Modular Monoliths, Environment-Based Configuration, Process Standardization
- **Security & Access:** JWT Authentication, Role-Based Access Control (RBAC), Secure API Design, Compliance Alignment

Frontend Development

- **Languages & Frameworks:** TypeScript, JavaScript (ES6+), React, HTML5, CSS3
- **Styling & UI:** Tailwind CSS, Responsive Design Principles

Backend & API Development

- **Runtime & Frameworks:** Node.js, Express.js

- **API Architecture:** RESTful API Design & Integration, Webhooks, OAuth/Token-Based Auth

Database & Data Layer

- **Relational (SQL):** PostgreSQL, MySQL (Schema Design, Query Optimization)
- **NoSQL & Caching:** MongoDB, Redis (Session/Cache Management)

Infrastructure & DevOps

- **Containers & Virtualization:** Docker (Image Creation, Containerization)
- **CI/CD & Automation:** GitHub Actions, Automated Build Pipelines, Deployment Automation
- **Operating Systems:** Linux (Server Configuration, Deployment, Troubleshooting)
- **Version Control:** Git, GitHub (Branching Strategies, Collaborative Workflows)

Collaboration & Documentation

- **Technical Communication:** System Documentation, API Documentation (Swagger/OpenAPI)
- **Cross-Functional Workflow:** Integration with IT, DevOps, QA, and Operations teams

Experience

System Developer — Nexa Intel Ltd
Aug 2024 - Present

- **Architected and deployed** scalable backend services and internal web applications using Node.js, Express, and PostgreSQL, directly supporting critical organizational operations.
- **Engineered secure access layers** by implementing JWT-based authentication and role-based access control (RBAC), ensuring data integrity and system compliance.
- **Modernized the frontend experience** for internal and external users by developing responsive, maintainable interfaces with React and Tailwind CSS.
- **Reduced deployment time by ~40%** by containerizing applications with Docker and automating CI/CD pipelines via GitHub Actions, shifting from manual releases to consistent, automated delivery.

- **Influenced technical strategy** by actively participating in system design discussions, leading performance optimization initiatives, and owning the technical documentation lifecycle.

Team Leader (Contract / Remote) — Letshego (Financial Services)

Sept 2024 - Present

- **Led and coordinated cross-functional teams of 10–15 members** within a strictly regulated financial environment, ensuring flawless adherence to AML/KYC and data governance protocols.
- **Engineered a 30–40% reduction in turnaround time** by redesigning internal workflows and eliminating process bottlenecks, directly enhancing service delivery speed without compromising compliance.
- **Served as the primary bridge between operations and compliance**, reinforcing data governance standards and ensuring the team remained audit-ready at all times.

Part-Time CTO — Jamco Software Agency Ltd

Jan 2025 – Present

- **Defined the engineering roadmap** by establishing system architecture guidelines, secure coding standards, and scalable development practices adopted company-wide.
- **Provided technical oversight** for the design and maintenance of modular web applications and APIs, ensuring alignment with business goals and long-term scalability.
- **Elevated code quality and team capability** by leading implementation planning, conducting rigorous code reviews, and enforcing best practices in version control (Git/GitHub).

Technology Support — Mawingu Networks Ltd

Aug 2023 – Jul 2024

- **Maintained operational reliability** of Linux-based server systems and networked infrastructure through proactive monitoring, diagnostics, and on-the-ground troubleshooting.
- **Reduced repeat support tickets by 18%** by systematically documenting root causes and resolutions, transforming reactive support into a knowledge-based prevention model.
- **Built a foundational DevOps mindset** by gaining hands-on exposure to server configuration, deployment environments, and operational diagnostics early in the career track.

Note: Current roles represent a combination of full-time employment (Nexa Intel), a part-time advisory contract (Letshego), and a fractional CTO engagement (Jamco). All commitments are managed transparently with each organization.

Projects

WhatsApp AI Microservice - Smart Business Automation Platform

Full Ownership | Design, Architecture & Development

Repository: Available on request (public production-ready code)

- Capable of processing 100+ concurrent conversations with sub-2 second latency and designed for 1,000+ daily messages with 99.9% uptime in containerized environments.
- Developed backend services and REST APIs to handle message ingestion, processing, and response workflows.
- Integrated AI-assisted logic to improve response efficiency and consistency.
- Applied modular system design principles to support scalability, maintainability, and future integration.

Education

Bachelor of Science in Applied Statistics with Computer Programming

Murang'a University of Technology, Kenya – *Graduated 2023*

Concentration: Data-Driven Software Engineering & Statistical Computing

Core Competencies Developed:

- **Quantitative Reasoning & Analysis:** Rigorous training in statistical modeling and data structures, directly applicable to performance optimization, system telemetry analysis, and data-informed engineering decisions.
- **Algorithmic Problem-Solving:** Foundation in computational logic and structured programming, enabling clean, efficient code architecture and systematic debugging methodologies.
- **Data-Centric System Design:** Academic focus on processing structured data, which translates directly to real-world skills in database query optimization, API response structuring, and ETL workflow logic.

Certifications & Professional Development

- **Full-Stack JavaScript Development (Node.js, React, REST APIs)** — *Mimo Platforms*
Comprehensive, project-based training (approx. 960 hours) covering React component

architecture, state management, and Node.js backend development for production-ready applications.

- **Proactive Cybersecurity & Compliance** — Letshego Holdings PLC (Financial Services) *Corporate certification in security best practices, threat awareness, and regulatory compliance (aligned with AML/KYC frameworks) within a regulated financial environment.*