Wycliff Ochieng

Software Engineer

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SUMMARY

Backend Engineer focused on Backend Engineering, Data Platforms and ERP Systems. I enjoy building scalable systems, automating workflows, and designing data-driven applications that solve real business problems.

TECHNICAL SKILLS

Languages: Golang, Python, SQL, Bash, JavaScript

Backend: Go stdlib/Gorilla, FastAPI, JSON-RPC, gRPC, REST APIs, WebSockets, Kafka, Redis Queues

Databases & Storage: PostgreSQL, MySQL, Redis, Apache Spark ,Apache Kafka, Amazon Redshift

Cloud & DevOps: Docker, Docker Compose, Kubernetes (K3s), Linux, CI/CD, Git, GitHub Actions, NGINX

AI Engineering: LLM API Integrations (OpenAI), LangChain, Vector/Embeddings Retrieval, LangGraph

Monitoring & Observability: Prometheus , Grafana

WORK EXPERIENCE

Mobipine - Nairobi, Kenya

Software Engineer | September 2025 - Present

- Built an event-driven integration with Meta's WhatsApp Cloud API to automatically send order confirmations, payment receipts, and generated PDF invoices with secure customer portal links.
- Integrated ERP system with Diamond Trust Bank (DTB) and Safaricom Till Moja, building webhook handlers with signature verification to automate payment capture and ledger reconciliation.
- Built a two-way sync between WooCommerce and Odoo ERP with real-time tax invoice fiscalization via the Mauritius Revenue Authority (MRA) API, including retry logic for tax portal downtimes.
- Engineered a POS management system with role-based permissions, manager approval controls for discounts/refunds, and real-time stock locking to prevent overselling.
- Developed hospital and clinic management workflows covering patient intake, doctor scheduling, machine/room allocation, and multi-department billing in PostgreSQL.
- Built a location-based task management engine in Python and PostgreSQL that validates field team check-ins and check-outs using GPS boundaries.
- Built an automated reporting service in Python to generate large XLSX and PDF financial and sales exports without slowing down database performance.

Mobipine - Nairobi, Kenya

Software Engineer Intern | April 2025 - September 2025

- Built payment gateway middleware connecting internal accounting to M-Pesa APIs (STK Push, C2B, and B2C), automating daily payment reconciliation.
- Wrote optimized PostgreSQL queries and aggregation pipelines to power real-time inventory bincards, sales dashboards, and stock velocity reports.
- Handled database migrations and data ingestion across Odoo versions using Docker, Linux, and PostgreSQL with zero data loss.

PROJECTS

OmniTrace - AI Observability Platform

Go, Python, LangChain, Redis, PostgreSQL, WebSockets, Docker

- Architected an automated log-analysis platform using Go and Python to ingest, parse, and analyze distributed system logs with high-throughput streaming.
- Built source-side log parsers with stateful multiline traceback merging and ANSI sanitization using Python and Docker SDK to prevent corrupted payloads from poisoning LLM context.
- Designed asynchronous background worker queues using Redis and LangChain to trigger automated root-cause analysis on critical severities, storing structured diagnosis into PostgreSQL.
- Developed real-time debugging endpoints and live WebSocket log streaming with session persistence, enabling interactive AI chat diagnostics over active production incidents.

Sports Pro - Backend Microservices Platform

Golang, gRPC, Apache Kafka, PostgreSQL, Docker, Goose, Kubernetes (K3s)

- Architected isolated microservices in Golang for user authentication, team management, and event scheduling, achieving low-latency synchronous RPC communication via gRPC.
- Implemented an asynchronous event-driven messaging backbone with Apache Kafka to synchronize state updates across decoupled domain services.
- Automated versioned schema migrations using Goose and PostgreSQL, containerized each microservice with multi-stage Docker builds, and deployed to production on a Kubernetes (K3s) cluster.

EDUCATION

Kenyatta University - Nairobi, Kenya

Bachelor of Science, Mathematics and Computer Science | 2022 - December 2026

CERTIFICATIONS

Kubernetes and Cloud Native Associate (KCNA) - Linux Foundation (2025)