ANYUNGU C. WANYUNGU

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Senior AI and Full-Stack Engineer with 7+ years of experience designing, shipping and maintaining production systems across agritech, IoT, fintech and international development. Builds integrations and AI-enabled workflows that teams rely on daily, using Gemini, OpenAI and open-weight models, with evals, tool calling and connections to business systems such as ERPs and accounting tools. Experienced in taking ambiguous requirements from discovery through build, rollout, training and ongoing support, working closely with non-technical teams.

Technical Skills

- Systems Integration: REST APIs, third-party APIs, OAuth, webhooks, Postman, n8n, Twilio, Meta WhatsApp Cloud API, accounting integrations, ERP workflows, messaging systems, role-based access control (RBAC).
- Databases & Data Engineering: PostgreSQL, Redis, SQL, BigQuery, Airbyte, ELT/CDC pipelines, data modeling, data quality, data replication, Metabase.
- AI Applications: LLM-powered workflows, agents, tool calling, structured outputs, evals, document parsing (PDF/DOCX), RAG, pgvector, Gemini API, OpenAI API, open-weight models (Ollama), AI coding agents (Claude Code, Copilot, Cursor).
- Full-Stack Development: TypeScript, JavaScript, Python, FastAPI, Node.js, NestJS, React, React Native, Next.js, Vue.js.
- Cloud, DevOps & Infrastructure: AWS (ECS, Lambda, VPC, S3, EC2), Docker, Pulumi (Infrastructure as Code), GitHub Actions, CI/CD, deployment automation, pipeline monitoring, production troubleshooting.
- Testing, Documentation & Code Quality: End-to-end testing with Playwright, unit testing, frontend and backend testing, code reviews, Git, UML diagrams, technical specifications and user guides.

Professional Experience

Farm to Feed | Senior Full-Stack Engineer & Data Lead | June 2025 – September 2026

- Application Development & ERP: Developed and maintained custom ERP functionality covering sales, supplier orders, inventory, bills, credit notes and accounting workflows.
- AI Document Processing & Evals: Built an LPO parser using OCR and Gemini, with a tool-calling step matching lines to ERP products and prices to prefill orders for human-in-the-loop review by account managers, and regression evals on real LPOs and replayed chats, reducing manual order-processing time by 90%.
- Conversational AI & Tool Calling: Built a WhatsApp ordering agent (Twilio, later Meta to cut costs) using custom tool calls against the ERP, with deterministic order validation, Redis-backed sessions and rate limiting, customer authentication and Gemini/OpenAI fallback.
- Data Engineering & Performance: Built and operated PostgreSQL ELT/CDC pipelines into analytical storage, achieving over 99% successful pipeline jobs and reducing core API load by approximately 40%.
- Delivery & Training: For the LPO parser, WhatsApp agent and data work, worked directly with management, sales and customers to gather requirements, built the solutions, trained users and supported them after launch.
- Technical Leadership: Led software engineering, BI analysis and data engineering, setting technical direction and shared engineering and AI standards (prompting, evals, guardrails, model fallback) for the ERP, analytics and ELT/CDC pipelines.
- CI/CD & Engineering Quality: Maintained GitHub Actions CI/CD, and contributed to technical planning, code reviews, testing and production troubleshooting.

Inspirafarms Cooling | Senior Full-Stack Engineer (IoT) / Consultant | April 2022 – August 2025

- Worked with operations teams and field technicians to map workflows, roll out IoT tools, write user guides and train staff, then supported them in production.
- Built MQTT/InfluxDB time-series pipelines handling over 20 million data points per month for IoT operations.
- Developed Next.js administration tools and a React Native mobile application supporting IoT operations and field workflows.
- Built RAG-assisted device and project provisioning workflows, reducing setup time from days to under 24 hours.

Mortgage Ezy | Full-Stack Engineer | July 2021 – July 2022

- Integrated third-party credit-checking APIs into loan-processing workflows, reducing response times to one day.

Libryo | Full-Stack Software Engineer | January 2021 – October 2021

- Built and maintained Playwright/TypeScript scraping pipelines over regulatory and government websites, adapting to source changes and scaling the core dataset from 1 GB to 10 GB.

Mesozi Group | Backend Engineer | August 2020 – February 2021

- Designed an AWS-based microservices architecture on Kubernetes that served as technical justification for an $8 million seed funding round.

Liquid Intelligent Technologies | IoT Software Engineer | January 2020 – August 2020

- Deployed a Sigfox demonstration solution in Kenya, reducing setup time to two days and helping secure the first national client.

Fibo Technologies | Software Engineer | December 2018 – January 2020

- Worked on converting a legacy system into a cloud-based platform.

Projects

Mwanga-ai | github.com/Anyungu/mwanga-ai | Open-source, self-hosted AI gateway

- Built a gateway that routes chat between Gemini and local open-weight models via Ollama, with per-key rate limits and spend tracking in Redis to compare managed vs self-hosted costs, RAG over pgvector, and Prometheus/Grafana monitoring.

Docspade | app.docspade.com | Multi-tenant AI documentation platform

- Built a multi-tenant platform where teams write and publish documentation sites, with role-based access and Ask AI answers using RAG over pgvector and Gemini. Runs in production on Docker with CI/CD and backups.

Education

BSc. Telecommunication and Information Engineering | Jomo Kenyatta University of Agriculture and Technology (JKUAT) | 2018