

ELVIS GYASI OWUSU

AI Systems & Full-Stack Engineer - Technical Product Leader

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PROFILE

AI systems and full-stack engineer who leads products from architecture through production and field deployment. Co-Founder and CEO of MechLink LTD, where I built offline-first agricultural infrastructure connecting **21,759 registered farmers** and **3,554 service providers** across Ghana. Experienced in multi-tenant SaaS, distributed workflows, AI integrations, accessible interfaces, and technical product leadership across Go, Python, TypeScript, Next.js, React Native, PostgreSQL, and Redis.

AI systems LLM workflows, agents, evaluation	Product engineering Web, mobile, APIs, multi-tenant SaaS	Infrastructure Offline-first, USSD, queues, real-time systems
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EXPERIENCE

Co-Founder, Chief Executive Officer & Technical Lead Sep 2022 - Present

MechLink LTD - Ghana - Hybrid

- Founded and lead a technology company building digital infrastructure for African agriculture; own company strategy, product direction, technical architecture, partnerships, and field delivery.
- Scaled MechAfrica from approximately 1,240 to **21,759 registered farmers** and from 105 to **3,554 service providers** across 9 regions and 16 districts; supported 6,273 service requests with peaks above 500 per week.
- Architected the Go/Gin and PostgreSQL platform, mobile apps, USSD/SMS and offline workflows; also secured a three-year Agrinvest partnership under AGRA's YEFFA programme and deployed 64 field agents.

Technical Lead & Full-Stack Developer Nov 2024 - Jun 2026

Digital Drivers Technologies - Remote

- Led development of AI-powered accessibility products, including the Boafu Chrome Extension and web accessibility widget, deployed across more than 100 websites through a collaboration with MEST Africa.
- Built shared Next.js and Node.js services for speech, translation and summarisation workflows while maintaining WCAG/ARIA compliance and production reliability.

SELECTED SYSTEMS

Founder & Systems Architect - Optomus Jan 2026 - Present

AI social media orchestration platform

- Built a multi-tenant platform for AI-driven planning, generation, approvals, publishing, engagement, analytics, and lead qualification across social channels.
- Designed FastAPI, PostgreSQL, Redis, Celery, WebSocket, OAuth 2.0 and goal-driven LLM workflows for reliable asynchronous automation.

Full-Stack Platform Developer - Euodia Consulting 2026

Consulting website and operations platform

- Delivered the public consulting site and secure administration system with Next.js, Neon, Vercel Blob and Resend, including content, enquiry, email, image-management and privacy-conscious analytics workflows.

SELECTED RESEARCH

Who Judges Matters: Measuring Family-Conditioned Preference in LLM-as-Judge Panels. arXiv preprint 2609.17857 (2026).

arxiv.org/abs/2609.17857

AfriSyCo: Measuring Assertive Framing, Verification, and Wording Sensitivity Around African-Language Content. arXiv preprint 2609.17853 (2026).

arxiv.org/abs/2609.17853

TECHNICAL SKILLS

Languages & frameworks	Python, Go, TypeScript, JavaScript, Next.js, React, React Native, Flutter, FastAPI
Data & infrastructure	PostgreSQL, MongoDB, Redis, Supabase, REST, WebSockets, Celery, Docker, CI/CD
AI & delivery	LLM integrations, agents, prompt engineering, RAG, scikit-learn, offline-first sync, USSD, SMS, accessibility

EDUCATION & CREDENTIALS

BSc Computer Science - First Class Honours Jan 2021 - Nov 2024

Kwame Nkrumah University of Science and Technology - Kumasi, Ghana

Final-year project: **CampSafe**, a paired Flutter safety system with location-based DBSCAN anomaly detection, SOS escalation, live responder routing, Firebase, and Google Maps.

Recognition: 2nd Place, BRIDGE-in Agriculture Pitch Competition - CrossBoundary Advisory / Mastercard Foundation Initiative (Jun 2025).

Google Project Management Professional Certificate

Google / Coursera - Jan 2026 - [Credly](#)

Google Prompting Essentials Specialization

Google / Coursera - Sep 2025 - [Credential](#)

JavaScript Programming with React, Node & MongoDB Specialization

IBM / Coursera - Sep 2026 - [Credly](#)

NodeJS Masterclass (Express, MongoDB, OpenAI)

Udemy - Apr 2025 - [Credential](#)