GJ.

George Jabley.

Junior AI Software Developer

Software, AI & Infrastructure · 25+ years in technology

SCAN · PORTFOLIO

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PROFILE

Founder and IT Operations Lead of TechWokx Ghana with more than 25 years in technology, including 16+ years in IT support, infrastructure and technical operations, now building production software and AI systems. I take products from idea to a deployed, maintained system: full-stack web apps, multi-agent AI pipelines, business automation, desktop tooling and the servers they run on. I served as Lead Engineer in an innovation lab on wingBM and compete on lablab.ai at the Legend tier, with six AI hackathons completed.

25+	16+	~1	6
years in technology	years in IT support	year building AI	AI hackathons

TECHNICAL SKILLS

Languages	Python, TypeScript / JavaScript, PHP, C#, Dart, PowerShell, Bash
Front end & apps	Next.js, React, Tailwind CSS, Flutter, Electron, Streamlit, CustomTkinter, PWA
Back end & data	FastAPI, Flask, Node.js / Express, SQLite, PostgreSQL, Neo4j, Supabase
AI & agents	Multi-agent systems, tiered model routing, LLM integration (Claude, Gemini, Groq, OpenAI, DeepSeek, Llama, Fireworks AI, IBM watsonx)
Infrastructure	Linux and Windows servers, Docker, Coolify / Traefik, Caddy, nginx, PM2, systemd, Render, Vultr, Oracle Cloud, Microsoft 365, Azure
Integrations	Meta Ads, WhatsApp Business, Buffer, Paystack, Resend, Mailgun, MailerLite, n8n, GitHub REST API
Email & security	SPF / DKIM / DMARC delivery, SSL/TLS analysis, DNS auditing, network and port scanning

FEATURED ENGAGEMENT

wingBM COMPLETED

Lead Engineer, Innovation Lab · approx. 5 months

Led engineering for wingBM as part of an innovation lab, owning technical direction and delivery over a five-month engagement.

AI SYSTEMS & HACKATHON PROJECTS

ChiefFlow AI — SUBMITTED

AMD Developer Hackathon

Full-stack AI Chief of Staff with six specialist agents behind a tiered router (Gemma, AMD GPU, Fireworks AI). Deployed and demoed live with a pitch deck.

Stack: FastAPI, Next.js, SQLite, Docker, Render

Bridge (BridgeAI) — SUBMITTED

ABTalks Hackathon

Autonomous AI life companion that starts conversations on its own, driven by a five-factor scoring engine; Neo4j Life Map and a Groq / Gemini model router.

Stack: Next.js 16, React 19, TypeScript, Neo4j, Supabase

SovereignGuard AI — COMPLETED

Multi-agent compliance

Trade-compliance system running several different LLMs side by side, with escalation panels, audit-packet viewing and GitHub push built in.

Stack: Python, Streamlit, GPT-4o-mini, Gemini, Llama-3, DeepSeek-R1

App Architect Studio — SUBMITTED

IBM Bob Hackathon · Frontend Lead

Front end for an app-design tool on IBM watsonx (certificate CMQAZM0DF00W).

Stack: IBM watsonx, front end

PRODUCTION WEB PLATFORMS & BUSINESS SYSTEMS

DEW by Aphia — LIVE
dewbyaphia.online

Luxury Ghanaian fashion store built and run end to end: made-to-order flow with Paystack deposits, admin dashboard, AI agents with human approval, installable PWA, self-hosted on a VPS.

Stack: Next.js 16, Tailwind 4, PostgreSQL, Paystack, nginx, PM2

Zara Kitchen — LIVE
zarakitchen.online

Accra restaurant website rebuilt to approved mockups: hero carousel, 16-category menu with 84+ photos, gallery and catering request form.

Stack: Next.js, TypeScript, Tailwind CSS, Render

MBL-NTL SulNOxEco Ghana — IN DEVELOPMENT
Client website

Customer site for the sole authorised Ghana distributor of SulNOxEco Fuel Conditioner: full redesign, 15 pages and an AI Sales Agent showcase.

Stack: Next.js 14, TypeScript, Tailwind CSS, Docker, Render

Meta Ads & Marketing System — LIVE
Oracle Cloud VPS

Campaign, ad-spend and content dashboard with Buffer scheduling and a WhatsApp webhook that auto-replies and detects lead intent; Docker Compose with Caddy SSL.

Stack: Node.js, Express, Docker, Caddy, Meta Ads API, Resend

Social & WhatsApp Operations Stack — LIVE
Multi-brand

Resilient posting and messaging architecture with primary and fallback schedulers, WhatsApp Business broadcasts and n8n ticket routing, run as systemd services.

Stack: Node.js, WebSocket, React, n8n, systemd, Caddy

AI Workforce — VA Platform — IN DEVELOPMENT
Internal operations

Specialist AI agents (email, research, data entry, documents, lead generation, reporting) behind a human-reviewed virtual assistant service.

Stack: Next.js, FastAPI, PostgreSQL, Docker

TOOLS, PRODUCTS & PROTOTYPES

TechWokx Lead Intelligence Engine — BUILT
Desktop & tools

22-module CRM with DNS auditing, lead scoring, Claude-powered analysis and PDF proposal generation.

Stack: Python, Streamlit

TechWokx IT Admin Suite — BUILT
Desktop & tools

11-module Windows app: network, port and SSL/TLS scanning, WHOIS, bandwidth monitoring, USB control and cPanel audit, compiled to a single executable.

Stack: Python, CustomTkinter, PyInstaller

LoyverseBridge — BUILT
Desktop & tools

Bridges a Loyverse Android POS in an emulator to a Windows print spooler over TCP and ESC/POS, with retries and log rotation.

Stack: C#

Also built: Personal & VA portfolio sites (Groq / Claude chat widgets) · VitalityBridge · TechWokx AI Lab-in-a-Box · Guardian Agent (TechEx Hackathon) · TechWokx Rescue Toolkit · File Transfer App (Flask, Flutter) · AI Text Toolkit · HandFresh e-commerce · BookForge AI · AI Chat Vault · Ambient German Coach (Flutter) · Digital Bridge Africa teaching boards

EXPERIENCE

Founder & Principal Consultant
TechWokx Ghana (techwokx.online)
Software, AI automation and IT infrastructure for Ghanaian and international clients: business email infrastructure, security audits and IT support for hotels, SMEs and NGOs.

Lead Engineer, Innovation Lab
wingBM · approx. 5 months
Owned technical direction and delivery of wingBM.

AI hackathon competitor
lablab.ai · Legend tier
Six AI hackathons completed, including AMD, ABTalks, IBM Bob and TechEx.

IT infrastructure & support
Compuprint Services
Infrastructure and support for banking clients.

IT support & infrastructure
25+ years across the field
Tier 1 to 3 support, Linux and Windows infrastructure, Microsoft 365 and Azure.

HACKATHONS, LABS & EVENTS

AMD Developer Hackathon · IBM Bob Hackathon · ABTalks Hackathon · TechEx Hackathon · iSpreme Innovation Lab · Africa Technology Forum