KWABENA KUMI BOAHENE

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PROFESSIONAL SUMMARY

Software engineer with 2+ years of production experience building REST APIs and data-critical systems with Python/FastAPI, Node.js/TypeScript and PostgreSQL, plus a proficient experience in digital payments at GhIPSS, onboarding 50+ merchants and agents and reconciling financial records across national programmes. Experienced in the reliability and security basics fintech depends on: data integrity, JWT and role-based access control, Row Level Security, and structured logging that traces problems to their cause. Systems built are used daily by 30+ staff and 100+ members.

PROFESSIONAL EXPERIENCE

Backend Web Developer | October 2025 – December 2025 | Farm Estates Ltd

- Built 15+ REST APIs with FastAPI covering users, farms, crops, batches, sensors, alerts, pricing, and logs.
- Implemented Appwrite authentication (login, JWT, sessions, email verification, password recovery) and custom JWT middleware protecting 100% of restricted endpoints.
- Tested 15+ API endpoints with Swagger and Postman for the Flutter team, reducing frontend integration issues.
- Deployed the backend to DigitalOcean App Platform, configuring 20+ environment variables for stable production releases.

Web Developer (Freelance) — BrandAfrik | May 2024 – May 2025

- Designed, built and deployed full-stack web applications for SME clients across Ghana, focused on internal business tools, attendance management and membership platforms.
- Owned the full project lifecycle, from architecture through deployment and post-launch support.
- Designed relational databases with schema design, indexing and data integrity constraints.
- Administered production environments, including hosting, DNS/SSL configuration and security.

Business Development Analyst — Ghana Interbank Payment and Settlement Systems (GhIPSS), Accra | October 2023 – October 2024

- Onboarded and activated 50+ merchants and agents on digital payment platforms, guiding non-technical users through setup, daily use, and common issues.
- Reconciled financial records with 100% accuracy across national programs (LEAP, LIPW, PI, NSS), supporting audit readiness.
- Streamlined reconciliation processes, reducing reporting errors and improving data integrity.

PROJECT EXPERIENCE

E-commerce Store | October 2026| API Docs: github.com/KwabenaK003/e-commerce.git

- Architected and built a full-stack e-commerce platform (Next.js API routes, Paystack, Arkesel).

- Designed multi-table PostgreSQL (Supabase) schema with Row Level Security and role-based access control containing product list with search, product pages with variants, cart, guest checkout, and order tracking.

Agentic Document Assistant | August 2026 | API Docs: retrieval-augmented-generation-rag-app.onrender.com/docs

- Built and deployed a backend service combining retrieval-augmented generation (RAG) with a multi-step Claude tool-calling agent, using FastAPI and the Anthropic API.
- Implemented document ingestion, chunking, similarity-based retrieval, and multi-step agent reasoning with tool-calling and per-session memory.
- Comprehensive Pytest coverage across API endpoints, core logic, and the agent loop, including tests run against a mocked LLM client. Deployed on Render.

Office Attendance Management System | May 2026 – June 2026 | Live: https://attendance-management-system-smoky.vercel.app/

- Architected a production-grade full-stack attendance platform (Next.js, React, TypeScript), used daily by 30+ staff.
- Designed a multi-table PostgreSQL (Supabase) schema with Row Level Security policies, performance indexes and automated triggers to enforce data integrity.
- Implemented end-to-end observability: structured request logging with unique request IDs, sanitized payload capture and layered error handling, returning safe generic responses to clients while keeping actionable context server-side.
- Containerized local development with Docker for dev-to-production parity.

Church Management System | March 2026 – April 2026 | Live: https://busdaceng.org/

- Built and deployed a full-stack platform (Node.js, Next.js API routes, Supabase/PostgreSQL) serving 100+ active church members, with Row Level Security and role-based access control.
- Developed a QR code attendance system with real-time GPS capture for mobile check-ins.
- Deployed to production with custom domain configuration.
- Integrated an automated email system using Resend and React Email to send welcome emails, service reminders and visitor follow-ups, with all activity logged to the database

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SKILLS

Technical Skills:

- Languages**:** JavaScript (ES6+), TypeScript, Python, SQL
- Frontend & Mobile: React, React Native, Next.js, HTML5, CSS3
- Backend: Node.js, FastAPI, SQLAlchemy, REST API design, JWT authentication
- AI/LLM: Anthropic API, prompt engineering, RAG pipelines, tool/function calling, agent design, session memory, Claude Code, Cursor, GitHub Copilot, Codex.
- Databases: PostgreSQL(Supabase), Appwrite, MongoDB, schema design, query optimization, RLS
- Cloud & DevOps: Linux, Git & GitHub, Docker, DigitalOcean, Render, Vercel, AWS, Agile Practices

Soft Skills: Communication · Collaboration · Time Management · Problem Solving · Critical Thinking · Adaptability · Growth Mindset · Working Well Under Pressure

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EDUCATION

University of Ghana, Legon | August 2019 – August 2023
Bachelor of Arts (B.A.), Economics and Mathematics (Combined Major)

Generation Ghana and MEST Africa | August 2025 – November 2025
Web Development Training