



ALEXANDER APPIAH-KUBI

Full-Stack Software Developer / AI Engineer
Lextech Solutions, Accra, Ghana

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Alexander Appiah-Kubi

TECHNICAL SKILLS

Frontend

React 18, Next.js 14, TypeScript
Tailwind CSS, shadcn/ui, PWA

Mobile

Flutter (Dart), BLoC/GetX, SQLite/Hive
Android-first

Backend

FastAPI, Node.js, Express.js, REST
JWT/OAuth2

Databases

PostgreSQL, Redis, SQLite, Supabase

AI & LLMs

Ollama (Mistral, DeepSeek-R1, Qwen)
OpenAI API, Whisper, RAG, Qdrant

Payments

Paystack, Flutterwave, MTN MoMo
Vodafone Cash

DevOps

Docker, GitHub Actions, Railway, Vercel
Cloudflare R2

Security

JWT, TOTP/2FA, Input validation
Ghana DPA 843

Languages

Python, TypeScript, Dart, JavaScript, SQL
Bash, C++

EDUCATION

BSc Information Technology

Accra Institute of Technology

In Progress

- Web Technologies (IT204)
- Multimedia Systems (IT201)
- Data Structures & Algorithms
- Digital Systems
- C++ OOP
- Android & Flutter Dev

LANGUAGES

English

Fluent

French

Intermediate

OPEN SOURCE

github.com/LexaStrong

- Blueprint AI
- Lextech Project Suite
- Sentinel Security Suite

FOCUS AREAS

- Africa-first product design
- Offline-first architecture
- Mobile money integration
- AI engineering
- Full-stack delivery

PROFESSIONAL SUMMARY

Full-stack developer and founder of Lextech Solutions, building production-grade software for Ghana and the broader African market. Specialized in offline-first architecture, AI integration, and mobile-first products designed for low-bandwidth, mobile-money-driven environments. Experienced across the full delivery lifecycle: architecture, development, deployment, and client engagement, with a strong focus on maintainable, secure, and scalable systems.

EXPERIENCE

Founder & Lead Developer

Lextech Solutions, Accra, Ghana

2026 - Present

- Founded Lextech Solutions, a technology consultancy building full-stack web, mobile, and AI-powered products for the Ghanaian and West African market.
- Architected and delivered Lexwork, a production-grade collaboration platform on a 9-service FastAPI microservices backend, Next.js 14 frontend, and Flutter mobile app.
- Built QSPRO Africa, an AI-powered quantity surveying platform with real-time GHS material pricing, offline sync, and cross-platform access (React PWA and Flutter).
- Developed the Lemaire Clothing App, a feature-complete client measurement management system with live search, payment tracking, and SVG body diagrams.
- Authored a Ghana Multimodal Logistics System investment prospectus covering strategic, financial, and political analysis for institutional and development finance partners.
- Produced Ghana-law compliant client documentation referencing the Electronic Transactions Act 772, Data Protection Act 843, and Companies Act 2019.

Freelance Web Developer

Self-employed

2019 - Present

- Designed and developed responsive websites and web applications for clients across Ghana using React, JavaScript, and modern frontend frameworks.
- Integrated third-party APIs and backend services to extend functionality across e-commerce, portfolio, and service business use cases.
- Optimized websites for SEO, accessibility (WCAG AA), and performance on low-bandwidth connections.
- Delivered UI/UX design services including wireframing, prototyping, and user testing.

Web and UI/UX Developer

CalexDev

- Conducted research and data analysis to inform product and UX decisions.
- Maintained and improved web interfaces and design systems for client-facing digital products.

SELECTED PROJECTS

Lexwork, Internal Collaboration Platform

9-service FastAPI microservices backend, PostgreSQL 16, Redis, Elasticsearch, Next.js 14 frontend (TypeScript, Tailwind, shadcn/ui, Zustand, TanStack Query, Tiptap), Flutter mobile app with offline sync, Yjs collaborative editing, JWT and TOTP security, Docker Compose, GitHub Actions CI/CD, Prometheus/Grafana/Loki observability stack.

Sentinel, Enterprise Security Suite

Windows desktop security application (Electron and React) integrating a stateful firewall, Suricata IDS/IPS, USBGuard device control, WireGuard VPN, Fail2Ban, and TOTP 2FA. 16-layer security model with Kali Linux backend and automated vulnerability scanning.

Blueprint AI, Architectural Drawing Generator

AI-powered full-stack web app generating six professional architectural drawing types from structured form input via the OpenAI API. Custom SVG rendering engine with MEP calculations based on IEC 60364 (electrical) and EN 806 (plumbing fixture units).

LexClient Portal, Client Intake System

Multi-step branching questionnaire with automated PDF generation, Supabase backend, Resend email