

NANA KWAKU AMOAKO

Software engineer · full-stack & ML

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EXPERIENCE

ExpressPay, Accra Jul – Aug 2026
Developer Intern

- Engineered secure card-management and role-based access control systems integrating Spring Boot with AltPay's payment API.
- Built a 397-test suite spanning JUnit, Cucumber and Playwright across full-stack applications.

Glam Photobooth GH, Accra 2025 – Present
Founder & CEO

- Started a photobooth business from 85+ customer surveys; designed and built our own booth in Accra.
- First event: 200+ guests with 95%+ positive feedback. Run brand, pricing, bookings, operations, website and guest gallery.

Npontu Technologies, Accra Jun – Jul 2023
Intelligent Systems Intern

- Developed a search API in Flask that cut query processing times by 40% on large datasets.
- Applied machine learning to improve search relevance and efficiency through training and testing.

God's Sanctuary (nonprofit), Tema Oct 2026 – Present
Social Media Manager

- Set the social strategy for a children's charity: page audit, brand guide, posting plan and a content calendar through the December outreach.
- Launched its Instagram; plan, design and schedule campaigns, carousels and Reels across Facebook and Instagram via Meta Business Suite.

Freelance, Accra 2024 – Present
Photographer & Designer

- Interior and product photography for HavenRae Studios; event design kit for Uearthed Accra; brand identity for Stride Society.

PROJECTS

DuoSign: text to sign language 2025 – 2026
Lead Developer & Researcher · React, Three.js, Python, spaCy, MediaPipe duosign.vercel.app

- Full-stack accessibility app turning English into ASL avatar animation through a text-to-gloss NLP pipeline, with live sign recognition via MediaPipe.
- Outstanding Capstone Project in Computer Science, Ashesi University 2026; co-designed with Deaf students and interpreters.

GoOutside: events discovery & ticketing 2026
Full-Stack Developer · Next.js 15, Supabase, PostgreSQL, Paystack, Hono gooutside.club

- Built search, organiser dashboards, Paystack ticketing, real-time chat and a ticket wallet for Ghana's events market.

Amoako's Passwords: zero-knowledge password manager 2025
Next.js 15, Go, PostgreSQL, Redis, AES-256-GCM github.com/nanadotam/amoako-pass

- Client-side AES-256-GCM encryption so the server only stores ciphertext; Go REST API, Redis sessions and rate limiting, audit logs.

Mantel: photo frame for every screen 2026
Next.js, Supabase, Electron, Swift mantelapp.vercel.app

- Web player, Mac screensaver and desktop app from one library; replaced polling with realtime broadcasts to cut ~1M requests a month.

EDUCATION

Ashesi University Graduated May 2026
BSc. Computer Science

- Coursework: Data Structures & Algorithms, Advanced Databases, Computer Networks, Operating Systems, AI, Mobile App Development, Web Technologies.

AWARDS

- Outstanding Capstone Project, Computer Science, Ashesi University (2026), for DuoSign.
- British Council 'Your World' video competition, winning team (2021).
- Best Position Paper, UNHCR Committee, Ghana International Model United Nations (2022).

SKILLS

Languages TypeScript, JavaScript, Python, Go, Java, SQL, C++

Web & backend	React, Next.js, Tailwind CSS, Node.js, Hono, Spring Boot, Flask, Supabase, Firebase
Data	PostgreSQL, Redis, MySQL, MongoDB
ML & AI	TensorFlow, Keras, scikit-learn, MediaPipe, OpenCV, spaCy, LLM APIs
Testing & tools	Git, Docker, Vercel, JUnit, Cucumber, Playwright
Design	Figma, Illustrator, Photoshop, Premiere Pro, DaVinci Resolve