

OPOKU NANA KWAME ABABIO

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Professional Summary

- Graduate Software Engineer with extensive experience in full-stack development, project supervision, SQL database management, and CI/CD pipelines (Docker). Adept at applying design thinking and problem-solving to enhance efficiency and deliver scalable, impactful solutions for large-scale projects
- Skilled in creating innovative, scalable IT solutions that enhance operational efficiency, with a proven track record in bridging technical and business needs.
- Passionate about mentoring African tech talent and contributing to Ghana's digital transformation, supporting Sustainable Development Goals (SDGs) through public service applications.
- Proficient in UI/UX design, software project management, team collaboration, and compliance with governance standards, leveraging cutting-edge technologies for impactful results.
- Experienced in delivering e-Government and digital public service solutions, including whistleblowing systems, geospatial intelligence platforms, and AI tools for public health and education, aligning with Ghana's digital transformation agenda and Sustainable Development Goals.

Professional Experience

Trinity Software Center | Kumasi

Full Stack Engineer

11/2024 - Current

Junior Frontend Engineer

05/2024 - 11/2024

- Led multiple Frontend Chapter meetings and built **Neuroforge-Nuxt** ([neuroforge-nuxt](#)), a custom AI agent skills that significantly accelerated frontend development through intelligent code generation, component scaffolding, and Nuxt.js-specific best practices.
- Built **Saterra Labs** ([saterra.earth](#)), a geospatial and hydrological intelligence platform that integrates satellite data, climate reanalysis, and field evidence to support sustainable landscape management in data-scarce regions of sub-Saharan Africa for clients from Mozambique.
- Contributed to the development of **Fillfellow** ([fillfellow.nl](#)), an AI-powered assistant for healthcare volunteers and professionals that reduces administrative burden through intelligent conversation support, automated reporting, and streamlined intake processes in the Netherlands.
- Developed **Anonyguard** ([anonyguard.report](#)), a secure whistleblowing platform that enables employees to report misconduct confidentially with options for full or partial anonymity.
- Contributed to **Phito** ([phito.eu](#)), an European Union funded smart farming project that provides farmers with real-time data and digital advisory services.
- Served as a core frontend contributor in building **Ezimarket**, a marketplace platform designed to connect over 10,000 vendors, shop assistants, and customers across Ghana.
- Contributed to **Skuuni** ([skuuni.com](#)), one of Ghana's leading school management systems for basic schools in West Africa.
- Mentored 10+ junior developers and interns on modern tech stacks, significantly improving team productivity and fostering a strong knowledge-sharing culture.
- Rebuilt **Trinity Software Center's** corporate website ([web.trinitysoftwarecenter.com](#)), delivering a more premium, modern, and UX-focused experience with improved visual hierarchy, usability, responsiveness, and presentation of the company's services.

Ampem Darkoa Ladies FC

Full Stack Developer

04/2024 - Current

- Built a fully fledged team management system for the best female football team in Ghana.
- Oversaw all end-to-end development tasks, delivering the project 2 weeks ahead of schedule.
- Contributed ideas for improving development process efficiency.
- Provided technical support and guidance to users and stakeholders.
- Deployed the application on Hostinger hosting platform.

Arhke Business Center

Co-Founder & Senior Software Engineer

03/2022 - Current

- Co-founded and lead the technical direction of **Arhke Business Center**, a Ghana-focused software and AI product company building practical digital solutions for businesses and organizations.
- Build AI-enabled products and custom software designed to address real-world challenges in Ghana, combining modern web technologies, automation, AI integration, and user-centered product design.
- Built "**bookiime**" (beta.bookiime.com), an AI-enabled booking and business management platform designed for service-based businesses in Ghana, helping service owners manage bookings, customers, payments, and day-to-day operations more efficiently.
- Developed scalable web applications using **Next.js (React)**, **Nuxt.js (Vue)**, **NestJS (Node.js)**, and **WordPress** with integrations for payment and business services including Paystack and Hubtel.
- Translated business requirements into user flows, wireframes, prototypes, and production-ready experiences, with a strong focus on usability, accessibility, and premium UI/UX.
- Implemented security best practices including application hardening, access controls, encryption strategies, and other measures for protecting client systems and data.
- Delivered digital products and websites for clients across Ghana, including Shop AC’s World, K. OAK School, Niya’s Nails Pattern, Avoda Impex, HighLevel, and CT Trade Hub.
- Launched the **Code4Kids Ghana Initiative** under Arhke in 2024 to equip recent senior high school graduates with practical training in AI and programming, engaging **300+** students across **8+ selected schools** in Ghana through hands-on technology workshops.

Technical Skills

- Full-Stack Development (React, Node.js, Vue), SQL Databases, RESTful APIs, Docker, CI/CD
- Geospatial Analysis, AI Integration, Secure Application Development
- Agile Methodologies, Project Management, Stakeholder Engagement
- UI/UX Design, WordPress, Payment Integration (Paystack)

Education

Kwame Nkrumah University of Science and Technology

BSc Business Administration (Business Information Technology)

2021 - 2024

ALX Ghana

Certificate in ALX AI Career Essentials

2024

Greater Works Institute of Technology

Certificate in Backend Development

2024

JP Morgan Chase & CO.

Certificate in Software Engineering Job Simulation

2024

References

Mr. Stephen Ofori, General Manager (Trinity Software Center), 054 429 0716, stephenofori@trinitysoftwarecenter.com

Mr. Michael Amponsah, Senior Frontend Engineer (Moblox), 055 841 0792, nanrmichaels@gmail.com

Dr. Obiri-Yeboah, Senior Lecturer (KNUST), 020 480 8042, kobiriyeboah.cas@knust.edu.gh

Volunteer Experience

The Giveback Foundation | Ghana

Co-Founder

12/2020 – Current

- Co-founded and supported the development of initiatives focused on improving opportunities, protection, and access to support for disadvantaged children and young people across Ghana.
- Contributed to **AGENT (Assisted Guardian for Early Notification & Tracking)** (agent.givebackimpactfoundation.com), an AI-enabled child protection coordination platform designed to help curb child trafficking and improve early reporting, case classification, referral assignment, and follow-up in Ghana.
- Helped shape an AI-assisted reporting and case management workflow that enables child protection concerns to be captured through accessible digital channels and routed to the appropriate responders for timely action.
- Organized charitable initiatives providing education, donations, and support to disadvantaged youth, while working with volunteers on fundraising, outreach, and community-focused projects.