Isaac Yaw Amponsah

Software Engineer

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PROFILE

I'm a Microsoft-certified software engineer (AZ-204) in the Digital Technology team at AngloGold Ashanti's Obuasi Mine. I design, build and support the business applications behind a large mining operation, from Power Platform workflows used by 1,400+ employees to system deployments across multiple sites.

I studied Computer Engineering at KNUST, graduating with First Class honours, and trained in backend engineering with ALX. My work spans Node.js, C# and Python services, SQL Server and Power BI reporting, data integration with FME Workbench and SSIS, ArcGIS Survey123 field apps, and embedded machine learning.

EXPERIENCE

Developer & Applications Support · AngloGold Ashanti — Nov 2024 – Present
Digital Technology Department · Obuasi Mine, Ghana

- Build, configure and maintain business applications on Microsoft Power Platform (Power Apps, Power Automate, SharePoint).
- Test and validate in-house applications before deployment, resolving issues to ensure performance and data accuracy.
- Support end users across the mine by gathering feedback, resolving issues and turning needs into system improvements.
- Work with vendors on support and updates for DMSI MAINTelligence, Deswik, SKF Analysis and ETAP.
- Support Microsoft SQL Server databases and internal applications, including queries and troubleshooting.
- Build Power BI reports and dashboards for data-driven decisions across departments.
- Rebuilt an internal asset management system as a modern web platform and led its rollout to further operations.
- Build data integration pipelines with FME Workbench and SSIS packages, and support ArcGIS Survey123 field apps such as Safety Observation.

Co-founder & Lead Backend Engineer · SleekTeq Solutions — Dec 2025 – Present
Custom software, web and mobile apps · Ghana · Remote

- Co-founded a small software studio building custom web and mobile products for clients in Ghana.
- Lead the backend across products: API design, databases, authentication, payments and deployments.
- Shipped E-Vitals, a family health-tracking app, to both the App Store and Google Play.
- Work with a small frontend team, reviewing code and setting the technical direction.

IT Support & Backend Developer Intern · Volta River Authority — Sep 2023 – Nov 2023
Management & Information Systems · Accra, Ghana

- Provided development and IT support in the Business Solutions Unit, helping streamline internal systems.
- Developed a full internship registration portal (Flask, MySQL) that improved how student applications are processed.

SELECTED PROJECTS

Educational Subsidy Workflow AngloGold Ashanti · Obuasi
A digital application that lets employees submit and track dependants' education subsidy requests, replacing a paper-based process.
1,400+ employees using it. Power Apps, Power Automate, SharePoint

Asset Management System AngloGold Ashanti
Rebuilt an internal asset management system, replacing a legacy desktop application with a modern web platform, and led its rollout to further operations.
5,000+ assets migrated. React, Fluent UI, Node.js, Express, SQL Server

E-Vitals SleekTeq Solutions · Mobile health app
A mobile app that helps individuals and families track blood pressure, blood glucose, SpO2, temperature and BMI, with trend charts, plain-language health insights, reminders and premium subscriptions.
React Native, Expo, TypeScript, Express, MySQL, Firebase

JUGOP HUB Partnership · jugop-hub.com
A request network for the global mining industry. Members post a need (equipment, parts, contractors, consultants, services or talent), and it is matched and broadcast to verified providers, who respond with offers. The requester compares, awards one, and both sides rate each other.
React, Vite, TypeScript, Tailwind CSS, Node.js, Express

EDUCATION

BSc Computer Engineering · Kwame Nkrumah University of Science and Technology — Jan 2021 – Nov 2024
First Class Honours

- Coursework: Operating Systems, Software Engineering, Data Structures & Algorithms, Networking, Database Systems, Embedded Systems
- Research: side-channel attacks on IoT devices and their countermeasures

Software Engineering, Backend Specialization · African Leadership X (ALX) — Aug 2022 – Nov 2023

- Python, JavaScript, Linux, APIs, databases and backend architecture

CERTIFICATIONS

Azure Developer Associate (AZ-204) · Microsoft
Azure Fundamentals (AZ-900) · Microsoft
Power BI Reporting · Seidor Analytics
Networking Technician Career Path · Cisco
Cloud Security Foundations · AWS Academy

SKILLS

Languages	Python · JavaScript · TypeScript · C# · C · SQL
Microsoft Platform	Power Apps · Power Automate · Power Pages · SharePoint · Power BI · Azure
Backend & Web	Node.js · Express · Flask · Django · React · Fluent UI · Next.js · REST APIs · Prisma · Socket.IO
Mobile	React Native · Expo · Firebase
Integration & GIS	FME Workbench · SSIS · ArcGIS Survey123 · ArcGIS · API integration · System interfacing
Data & Reporting	SQL Server · MySQL · PostgreSQL · SQLite · Redis · Power BI · Data migration
Infrastructure	IIS · Azure · AWS · Linux · Git · Networking
Embedded & AI	Arduino Nicla Vision · Edge Impulse · OpenMV · MicroPython · FOMO
Support & Delivery	Application support · Testing & validation · Deployment · Requirements gathering · Vendor coordination · Hardware & network troubleshooting · Technical documentation · User guides & training

References available on request.