

Samuel Owusu

Aberdeen, Scotland, UK | +44 7392 629463 | owusu.oben@gmail.com
linkedin.com/in/owususamuel | github.com/owususamuel

PROFESSIONAL PROFILE

Software engineer and technical cofounder with 8+ years of experience delivering public-sector and fintech platforms, now focused on AI project delivery. Combines cross-team coordination and commercial product development with hands-on expertise in AI agents, model evaluation and speech technology. Track record includes a service reaching 700,000+ customers and SaaS delivery contributing to 20% annual revenue growth.

CORE CAPABILITIES

End-to-end technical delivery • Cross-team coordination • Cloud deployment and CI/CD • AI evaluation and data quality • Infra and local GPU model deployment • API integration • Technical risk and issue resolution

PROFESSIONAL EXPERIENCE

Ministry of Finance Ghana

Software Engineer

Oct 2022 – Aug 2025

- Delivered an Azure-hosted expenditure tracking system, giving management access to national budget expenditure, status monitoring and reports to support decisions.
- Owned development and CI/CD deployment of the national SDG Budget Performance application on Azure Linux containers, covering build automation and release scripts.
- Prepared data and built machine learning pipelines for the 2021–2024 SDG budget reports, supporting analysis of national spending against development goals.
- Coordinated with the budget preparation team using Oracle Hyperion for work spanning 64+ ministries and 216 district assemblies.

Brox Technology Ghana

Software Engineer

Jan 2020 – May 2024

- Built an AI WhatsApp service for examination result vouchers that scaled to 700,000+ customers, alongside a USSD university application service integrating three mobile money providers.
- Led delivery of an SME SaaS backend comprising eight microservices, including CRM, payments, payroll and point of sale; contributed to 20% annual revenue growth and automated Azure releases.
- Integrated payment monitoring and an operations dashboard, enabling the sales team to investigate customer payment issues and manage refunds.

AGPaytech UK Remote

Software Engineer

Jul 2022 – Jan 2023

- Developed a neobanking backend and five Spring Boot microservices for authentication and customer management, supporting third-party financial service integrations.
- Integrated the Modulr Finance API to support bank account creation; tested APIs for security vulnerabilities and resolved identified issues.

Nokofio Platforms Ghana

Technical Cofounder

Nov 2018 – Dec 2022

- Built and deployed an AWS crowdfunding backend with campaign creation and recurring donation features, expanding the platform's fundraising services.
- Developed a no-code fundraising platform and customer churn prediction models using banking and telecommunications datasets to explore financial inclusion use cases.

SELECTED AI PROJECTS

EvalLab research reproducibility

MSc AI project | University of Aberdeen | 2026

- Developed an autonomous research workflow that inspects code repositories, plans experiments, diagnoses execution failures and compares generated figures and tables with published results.
- Evaluated reproducibility judgements against human assessments across 30 research papers and 286 figure and table targets, with 78% exact verdict agreement in the recorded evaluation.
- Built traceable command histories, artifact validation and structured reports, separating successful execution from verified reproduction and recording unresolved issues for review.

Speech data and translation platform

- Built a speech collection and transcription platform for low-resource languages, combining audio ingestion, task allocation, human review and approval workflows with role-based access.
- Integrated Azure storage and processing queues, offline contribution workflows and English–Twi speech translation; added Azure ML GPU training submission to support the model development lifecycle.
- Implemented fine-tuning pipelines for speech and translation models, including LoRA for speech recognition and NLLB and Seamless for translation.

MeetMind AI meeting assistant

- Built a macOS application combining live transcription, speaker identification and AI summaries that extract meeting decisions and action items.
- Integrated local and cloud speech providers with fallback processing, local SQLite storage and transcript export, giving users configurable transcription and summarisation options.

[Public source code](#)

EDUCATION

MSc Artificial Intelligence | University of Aberdeen, UK

Sep 2025 – Sep 2026

BSc Information Technology | Ghana Communication Technology University

Sep 2015 – Oct 2019

AWARDS AND LEADERSHIP

- [Bank of Ghana eCedi CBDC Hackathon](#) — first runner-up, Nokofio team, December 2023.
- UNICEF StartUp Lab grant awardee; overall winning team, NSUO, at the World Bank and Ministry of Sanitation hackathon.
- Hacklab Foundation AI Hackathon winner in fintech, education and ecommerce; first place, Trestle Academy AI Hackathon.

GhanaNLP research group member. Organised an AI hackathon at Ghana Communication Technology University in 2021; JavaScript conference speaker in 2019.

TECHNICAL SKILLS

AI and data: Python, PyTorch, Pandas, NumPy, Azure OpenAI, smolagents, speech recognition and synthesis, model evaluation, machine learning pipelines; fine-tuning, LoRA, Hugging Face Transformers, retrieval-augmented generation (RAG), embeddings, ChromaDB vector search and hybrid retrieval.

Cloud and engineering: Azure, AWS, Docker, Kubernetes, Terraform, GitHub, CI/CD, Linux, TypeScript, Java, SQL, FastAPI, Node.js, Spring Boot and Next.js.

MLOps: Azure ML, GPU training workflows and model checkpointing.

Automation and documentation: n8n, Power Automate, Microsoft Agent Framework, Postman, Markdown and LaTeX.