

RICHARD KWAKU OPOKU

Computer Science & Engineering Student

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PROFESSIONAL SUMMARY

Computer Science and Engineering student who builds products that ship. Focused on real users, real data, and real outcomes. Experienced in React interfaces, cloud backends, mobile apps, and AI-powered tools. Shipped 5+ live products across cloud, AI, and IoT disciplines with end-to-end ownership.

EDUCATION

Bachelor of Science in Computer Science and Engineering

Expected Graduation: 2027

University of Mines and Technology (UMaT), Tarkwa, Ghana

- Relevant Coursework: Cloud Computing, AI/ML Systems, IoT & Embedded Systems, Software Engineering, Database Management Systems, UI/UX Design

TECHNICAL SKILLS

Cloud & Infrastructure: AWS, GCP, Supabase, CI/CD

AI / ML Systems: Gemini, OpenAI, RAG Pipelines

Full-Stack Development: Next.js, React, Node.js, PostgreSQL, Supabase, TypeScript

Hardware & IoT: ESP32, MQTT, Embedded C

SaaS & Payments: Stripe Integration, Scalable Architectures

Product & UI Design: Figma, Canva, Systems Design

Productivity Tools: Microsoft Word, Excel, PowerPoint

EXPERIENCE

Hackathon Participant

2025

Department of Computer Science & Engineering, UMaT — Tarkwa, Ghana

- Participated in a general hackathon organized by the department.
- Collaborated with peers to design and present innovative software solutions.

IoT Hackathon Participant

2026

Robotics Club (AAENICS), UMaT — Tarkwa, Ghana

- Built embedded systems prototypes using ESP32 and MQTT.
- Worked in a team to solve automation challenges and present IoT solutions to an evaluation panel.

KEY PROJECTS

Schorla | *Next.js, Supabase, Gemini API, Stripe* [Live Demo](#)

- AI-powered scholarship intelligence platform with personalised opportunity matching and integrated payments.
- Built end-to-end from schema design through live deployment with Stripe subscription billing.

InsightFlow | *React, Vite, Supabase, TypeScript* [Live Demo](#)

- AI reading assistant that extracts key insights and summaries from uploaded documents.

Sheet2SaaS | *Next.js, Supabase, Gemini API, Stripe* [Live Demo](#)

- SaaS platform that converts spreadsheet data into live, shareable dashboards with subscription billing.

StudyMate | *Next.js, OpenAI API, PostgreSQL, Tailwind* [Live Demo](#)

- AI study assistant generating quizzes, flashcards, and study plans from uploaded course content.
- Deployed on Vercel with continuous integration; optimised for sub-2-second load times.

UMaTBOT | *Telegram Bot, Web App* [Live Demo](#)

- Automated student helpdesk chatbot for UMaT surfacing campus resources and FAQs via Telegram.

CERTIFICATIONS

AWS Certified Cloud Practitioner (CCP) — re/Start

Amazon Web Services

Machine Learning Specialization

Andrew Ng · Stanford University & DeepLearning.AI (Coursera)