

# Samuel Agyemang Osei

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## EDUCATION

### Kwame Nkrumah University of Science and Technology (KNUST)

Bachelor of Science - BSc Computer Engineering

Kumasi, Ghana

Jan 2022 - 2026

**Associations:** IEEE, National Society of Black Engineers (NSBE), Black In AI

**Relevant Coursework:** Object-oriented programming, Data Structures and Algorithms, Distributed Systems, Computer Networking, Digital Signals Processing, Secure Network Systems, Robotics and Computer Vision

## TECHNICAL SKILLS

**Languages:** Python, C/C++, Java, HTML/CSS, JavaScript, PHP

**Tools:** Git, AWS, Google Cloud Platform, WordPress, Visual Studio Code

**Certifications:** HCIA-AI (Huawei Certified ICT Associate - Artificial Intelligence), AWS Certified Cloud Practitioner

## WORK EXPERIENCE

### Software Engineering Intern

AmaliTech

Accra, Ghana

Sep 2024 – Oct 2024

- Optimized features for ARMS (AmaliTech's Resource Management Solution) using Spring Boot, enhancing payroll management, procurement processes, and performance tracking.
- Developed a skin condition analysis tool using the LLaMA 3.2 11B Vision model with Python and the OpenRouter API, integrating text-to-speech functionality.

### Website Developer

Cocoa360.org

Remote (Ghana)

Jun 2024 – Aug 2024

- Set up domain, hosting, and nameserver configurations, and managed routing through Cloudflare.
- Designed and developed an engaging, responsive website by conceptualizing UI in Figma and implementing features using WordPress and Elementor.

## PROJECTS & LEADERSHIP

### Full-Stack Developer

Mentorium, An Academic Mentorship Management Platform

[github.com/mentorium-live/mentorium](https://github.com/mentorium-live/mentorium)

- Designed and implemented an automated performance-balanced grouping algorithm that enabled academic coordinators to efficiently pair 500+ first-year students with lecturers, cutting manual assignment time by 70%.
- Built faculty and coordinator dashboards in Next.js and Shadcn/UI, integrating Supabase for secure data management, and delivered analytics features that enhanced visibility into student performance trends and mentee distribution across academic years.

### Founder & Lead

TechAble

Kumasi, Ghana

Jan 2025 – Present

- Secured an \$8,000 grant from the IEEE Computer Society to launch a digital skills training and mentorship program at KNUST to promote tech inclusion for students with disabilities.
- Designed and led an 8-week intensive program that equipped 44 students with disabilities with practical skills in graphic design, web development, and digital marketing.

### Meetup Organizer

WordPress.org

Kumasi, Ghana

Jun 2024 – Present

- Revived the WordPress meetup group in Kumasi, rapidly attracting over 50 active members within the first month, creating a collaborative network for WordPress enthusiasts.
- Organized monthly hangouts and workshops that improved member WordPress development and design skills, resulting in 46 members launching their websites and contributing to the WordPress project.

### Lead

Google Developer Group (GDG) on Campus

Kumasi, Ghana

Aug 2023 – Jun 2024

- Coordinated 24 impactful events, workshops, and hands-on projects, fostering a thriving developer community, increasing club membership by 116% and attendee engagement by 68% within the campus.
- Actively engaged with over 50 industry professionals and experts, facilitating connections and learning opportunities for club members. Mentored 15+ students, with mentees achieving notable milestones such as Global Top 100 in the Google Solution Challenge and taking leadership roles within the local tech community.