SAMPSON KOFI ADJEI

AI/ML Engineer | Software Engineer

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SUMMARY

AI Engineering and Computer Science professional with a strong foundation in machine learning, software engineering, and intelligent systems, with a particular interest in AI for robotics and autonomous technologies. Experienced in developing AI-driven solutions and translating real-world problems into reliable technical systems. Strong interest in computer vision, intelligent agents, autonomous systems, and machines that perceive, reason, and interact with the physical world.

EXPERIENCE

Valley View University — Accra, Ghana
COSSA President — 04/2026 - 05/2027

- Founded and launched the AI Club, Software Engineering Club, and UI/UX Design Club, creating collaborative communities where students transform innovative ideas into practical technology solutions.
- Led initiatives that encouraged students to identify real-world societal problems, develop technology-driven products, and progress ideas from concept to working solutions.
- Created opportunities for student innovators to network with industry professionals, entrepreneurs, and potential investors.
- Promoted a culture of innovation, entrepreneurship, technical collaboration, and problem-solving within the Computer Science student community.

DDamoah Studios — West Lafayette, IN,USA
Team Manager — 05/2025 - 11/2025

- Researched historical and contemporary criminal cases, gathering and verifying information from multiple sources to develop accurate documentary stories.
- Documented complex cases and transformed research findings into structured narratives for YouTube documentary content.

300 Million Legacy LLC — Palo Alto, CA, USA
Artificial Intelligence Engineer — 05/2025 - Present

- PiCUA Computer Use - Conducted quality assurance testing on an AI system being developed to support the training of robots, validating computer-interaction capabilities, system behaviour, and reliability across complex task workflows.
- Golem AI - Tested an AI-powered security platform designed to help developers detect and assess software vulnerabilities before and after deployment.
- Dax - Tested and refined an award-winning macOS productivity tool for vibe coders, validating AI features, keyboard shortcuts and workflow reliability so developers can navigate faster and stay in flow. Won Gold at the 2026 Davey Awards for Best AI-Powered Code or Development Tool.

Human In The Loop — Palo Alto, CA, USA
Business Development Manager — 11/2025 - Present

- Performed quality assurance and functional testing on an AI system integrating human feedback into AI workflows; the project received 1st place recognition at the Webby Awards.

Skairo Advanced Technologies Ltd. — Accra, Ghana
Founder & CEO — 05/2026 - Present

- Founded and led an early-stage technology company developing AI, automation, software, mobile, and intelligent systems designed to solve real-world problems.
- Lead the development of AI-powered products and scalable software systems from research and product strategy through engineering, testing, and deployment.
- Drive the company's technical vision around artificial intelligence, intelligent infrastructure, automation, and next-generation software technologies.

SKILLS

Programming: Python · C++ · C# · JavaScript · PHP · SQL · HTML · CSS · Rust · React Native
AI & Machine Learning: PyTorch · Computer Vision · YOLO · OpenCV · Machine Learning · Data Analysis
Software Development: Next.js · Flutter · Firebase
DevOps & Systems: Docker · Kali Linux · Git · GitHub
Engineering & Computing: AI Systems · Software Testing · Quality Assurance (QA)
Professional: Project Management · Problem Solving · Technical Collaboration

EDUCATION

Akosombo International School — Akosombo, Ghana
Senior High School WAEC - WASSCE — 03/2021 - 09/2023

Valley View University — Accra, Ghana
B.Sc. Computer Science — 01/2024 - 05/2027

CERTIFICATIONS

Introduction to Packet Tracer — Cisco Networking Academy

AWARDS

W3 Awards — Silver, Best Emerging Tech | 2025
Contributed to DDamoah Studios, which received Silver recognition in the Best Emerging Tech category.

The Webby Awards — Best Responsible AI Implementation | 2026
Contributed to the award-winning Human In The Loop platform, recognized for its human-approval infrastructure for AI agents.

The Davey Awards: Gold, Best AI-Powered Code or Development Tool | 2026
Contributed to Dax, a macOS productivity tool built by 300 Million Legacy LLC that helps vibe coders navigate faster and work more productively.

PROJECTS

ESP32-Based TinyML Health Monitoring and Early Warning System
Final-Year Research Project | Valley View University | 2026–Present
• Developing an ESP32-based TinyML health monitoring and early-warning system using heart rate, SpO_2, and body temperature to classify physiological conditions as Normal, Warning, or Critical.
• Preprocessed and analyzed a 5,909-record physiological dataset and developed an initial Decision Tree classifier using Python and scikit-learn in Google Colab.
• Evaluating the model using accuracy, precision, recall, F1-score, confusion matrix, and feature importance, with additional lightweight models planned for comparison.
• Working toward deployment of the selected model on ESP32 for real-time edge inference, evaluating inference speed, memory utilization, and computational efficiency.

Skairo Vision | AI & Computer Vision
- Developing an AI-powered computer vision platform for intelligent CCTV monitoring, real-time object detection, visitor management, and security intelligence.
- Applying Python, OpenCV, YOLO, machine learning, and computer vision techniques to build real-time visual detection capabilities.

Complementary Education Agency Digital Platform | Government Technology
- Designed and developed a digital platform for Ghana's Complementary Education Agency to manage news, programmes, regional information, events, newsletters, galleries, and public communication.
- Built the platform with a focus on scalable content management, usability, and digital accessibility.

Skairo Restaurant Technology | Hospitality Technology
- Developed a QR-powered digital ordering platform that enables customers to browse menus and place orders digitally.
- Designed the system to improve customer experience while simplifying restaurant ordering and operational workflows.