

ADJEI YAW OSEI

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EDUCATION

Kwame Nkrumah University of Science and Technology

B.S in Computer Science

Kumasi, Ghana

Relevant Coursework: Intro to Cybersecurity, Computer Science I, Computer Science II, Information Security

Expected Graduation: November 2027

WORK EXPERIENCE

Kwame Nkrumah University of Science and Technology

Kumasi, Ghana

Undergraduate Researcher, Automated Detection & Response for Phishing & Business Email Compromise Threats

June 2025 – Present

- Built BEC detection model with **58-feature** pipeline; selected CatBoost via cross-val, ablation, McNemar, and SHAP analysis, achieving **97.3% accuracy** and **0.995 AUC-ROC** with ms-level inference for SIEM/SOC deployment.

ISTAD-UTS KNUST

Kumasi, Ghana

Security Intern

Oct 2025 – Present

- Deployed and configured security workstations and Logstash pipelines to automate threat-feed ingestion and event enrichment.
- Performed packet-level analysis in Wireshark and assisted in incident investigation and containment actions.
- Monitored endpoints and services using Grafana and Elastic to detect anomalies and verify system health.

AmaliTech

Kumasi, Ghana

Security Intern

Sept 2025 – Nov 2025

- Built Grafana/Loki dashboards and alerts for auth events, API traffic, and system logs, enhancing anomaly detection.

- Standardized IR checklists and alert-triage workflow, reducing average investigation time per alert and improving response consistency across

Ideation Axis

Greater Accra, Ghana

Security Intern

Sept 2024 – Dec 2024

- Investigated **50+ daily** events in Elastic and escalated **20+ confirmed** threats, performed IOC identification through packet analysis in Wireshark.
- Automated Windows/Linux log parsing with Python, reducing triage time from ~8–10 minutes to less than 5 minutes per alert.

LEADERSHIP EXPERIENCE

PRESIDENT | IEEE Computer Society, KNUST Chapter

Sept 2025 – Present

- Led programs for over **100** students through workshops, hackathons, and mentorship, while representing KNUST at regional and national IEEE events to build collaborations.
- Expanded outreach by empowering **persons with disabilities** through accessible tech initiatives and introducing basic computing and coding concepts to over **5** basic schools.

DEPUTY RESEARCH HEAD | Department of Computer Science, KNUST

Aug 2025 – Present

- Coordinated student research groups and guided proposal development and conference submissions.

FOUNDER | Voicera Foundation

Oct 2024 – Present

- Built nonprofit delivering AI and tech education to underserved schools, led **11-member** team reaching **hundreds** of basic school students.

PROJECTS

SIEM Automation with Wazuh (IBM CAS + KNUST)

March 2025 – Present

- Building a Wazuh-based SOC lab with intrusion simulation, REST API agents and SOAR workflows using Docker and n8n, in collaboration with IBM, to improve automated threat detection and response.

Mframapa AI (Project Lead) [[Live Site](#)]

Oct 2025

- Won the '**Best Use of Data**' award out of 14 teams by building a production-ready web application during a 48-hour NASA Space Apps hackathon.
- Engineered the core functionality to provide 48-hour air quality forecasts by training **XGBoost** models on NASA's MERRA-2 and TEMPO satellite datasets.

Traffic Anomaly Detection System (Team Project) [[GitHub](#)]

April 2025

- Managed a team of four to build a real-time network monitoring solution using Z-score-based anomaly detection.
- Designed an alerting system that logged HTTP and DNS traffic and integrated email and Slack notifications to streamline incident response.

Custom Network Packet Sniffer [[GitHub](#)]

Sept 2024

- Built a Python-based sniffer to capture and filter 5,000+ packets per session.
- Detected ARP spoofing, SYN flood attacks and port scans in a controlled lab setting.

ADDITIONAL

Programming Languages: Python, HTML, CSS, JavaScript, SQL, Bash, PowerShell, KQL

Security Tools: Elastic, Wazuh, Grafana, Loki, Wireshark, Defender

Domains: SIEM, log analysis, incident response, threat detection, network monitoring

Certifications: Google Cybersecurity, ISO/IEC 27001, CCNA, ISC² CC, CyberOps Associate, IBM Cybersecurity Analyst, APISec

Organizations: IEEE Computer Society, KNUST Cybersecurity Club, Google Developer Student Club, Microsoft Learn Student Ambassador