

# ADJEI YAW OSEI

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## EDUCATION

### Kwame Nkrumah University of Science and Technology

Kumasi, Ghana

B.S in Computer Science

Expected Graduation: November 2027

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

## 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 an automated detection and response pipeline in Splunk that reduced false positives and improved alerting speed by integrating custom correlation rules and email behavior profiling.
- Prototyped ML-based phishing classifiers (header anomalies, sender reputation, text indicators) to reduce SOC response latency.

### AmaliTech

Kumasi, Ghana

Security Intern

Sept 2025 – Nov 2025

- Accelerated threat detection by building a Grafana/Loki monitoring system with custom rules to identify anomalies like API abuse and failed logins.
- Reduced incident response time by developing a standardized checklist that streamlined the team's workflow for security events.

### Ideation Axis

Greater Accra, Ghana

Security Intern

Sept 2024 – Dec 2024

- Analyzed 50+ daily security events in Splunk, escalating 20+ confirmed threats to senior analysts
- Parsed logs from Windows and Linux systems using Python scripts, reducing triage time from ~8–10 minutes to under 5 minutes per alert.
- Detected IOCs in packet captures using Wireshark, contributing to threat identification and escalation

## 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 undergraduate research groups by linking students with faculty projects and guiding proposal development.
- Mentored peers in preparing **technical presentations and research posters**, increasing student visibility at conferences.

## 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, Java, HTML, CSS, JavaScript, SQL, Bash, PowerShell, KQL

**Technical Skills:** Splunk, Wireshark, Microsoft Defender, ISO 27001, OWASP Top 10, API security testing, Packet inspection, Log correlation, Threat detection, Basic SIEM automation, Windows, Linux (Ubuntu)

**Certifications:** Google Cybersecurity Professional Certificate, ISO/IEC 27001, CCNA, ISC<sup>2</sup> Certified in Cybersecurity (CC), CyberOps Associate, IBM Cybersecurity Analyst, APISec

**Organizations:** IEEE Computer Society (Chair), KNUST Cybersecurity Club (Member), Mentorship, Google Developer Student Club (Member), Microsoft Learn Student Ambassador