

# MAXWELL BOSIAKO ANTWI

Kumasi-Ghana

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Security Blog: [Maxwell Antwi Bosiako — Hashnode](#)

## EDUCATION

### Ashesi University

Accra, Ghana

BSc. Computer Engineering

Expected Date of Graduation: June 2025

Networking, Data Science, Data Structures and Algorithms, IoT, Machine Learning, Operating Systems

## CERTIFICATES/ AWARDS

- **Google Cybersecurity Certificate** October 2024
- **Microsoft Security, Compliance and Identity fundamentals Certificate** June 2024
- **Certified in Cybersecurity Candidate, ISC<sup>2</sup>** June 2024
- **UiPath RPA Developer Foundation Certificate** July 2023
- **Best Engineering Project, Ashesi Smart Project Exhibition** June 2022

## WORK EXPERIENCES

### Cybersecurity Blogger and Educator

July 2024-Present

- Author 15+ blog posts on cutting-edge cybersecurity topics, reaching over 200 monthly readers.
- Conduct extensive research on emerging threats, defense strategies, and industry trends
- Create educational content to raise cybersecurity awareness among over 3000 social media followers

### Security Awareness Developer – Mastercard Cybersecurity Virtual Experience

August 2024

- Analyzed phishing attack methodologies and developed security training modules.
- Designed awareness campaigns to mitigate the risks of social engineering attacks.
- Improved organizational security culture through cybersecurity education initiatives.

### Security System Developer - DIDIA Farms

January – March 2024

- Led the development of "The Farm.io," an IoT-based intrusion detection and alert system to enhance farm security.
- Designed and implemented real-time monitoring software that detects security breaches and triggers instant alerts, reducing response time to potential threats.

### Cybersecurity Governance Analyst – Goldman Sachs Virtual Experience

October - November 2023

- Conducted password security audits using Hashcat; recommended SHA-256 adoption to mitigate breaches.
- Identified vulnerabilities in password storage mechanisms and proposed advanced hashing algorithms.
- Drafted recommendations that enhanced credential security practices within corporate environments.

## PROJECTS AND RESEARCH

### Machine Learning-based Fraud Detection System

October 2024

- Developed an AI-driven fraud detection system for banking transactions.
- Applied advanced sampling techniques such as ADASYN to improve model accuracy.
- Deployed a real-time monitoring framework to flag suspicious transactions, achieving a 95.75% success rate.

### Google Cybersecurity Professional Certificate, Coursera

July – October 2024

- Gained expertise in risk assessment, threat mitigation, and incident response strategies to address evolving cybersecurity challenges.
- Developed proficiency in implementing robust network security protocols and designing security measures to protect organizational assets.
- Applied industry-standard tools such as Linux and SQL to automate security tasks, improve operational efficiency, and enhance system resilience.

### Cryptography Game Developer

November - December 2022

- Designed and developed an interactive cryptography-based typing game to introduce users to encryption and decryption concepts.
- Implemented Python's Tkinter GUI to create a user-friendly interface that enabled players to decrypt encrypted words and receive real-time feedback.

## CO-CURRICULAR ACTIVITIES

### Co-Head – PicoCTF Campus Organizing Team

October 2024 - Present

- Spearhead Ashesi University's first-ever Capture the Flag (CTF) cybersecurity competition in partnership with Carnegie Mellon University.
- Designed and implemented real-world security challenges for students.
- Organized training sessions and mentored 50+ participants in ethical hacking and penetration testing.

### Member, Google Developer Students' Club

September 2022 - 2023

- Participated in weekly coding workshops, focusing on secure coding practices
- Contributed to development of secure online shop management system, implementing encryption and secure authentication methods.
- Contributed to the local developer's community by assisting other developers learn difficult concepts in python.

## TECHNICAL SKILLS

- **Security Tools:** Wireshark, nMap, Hashcat, SQL
- **Networking:** Cisco Packet Tracer, TCP/IP, Network Analysis
- **Programming:** Python, Java, C, MATLAB, MIPS, Arduino, VHDL
- **Operating Systems:** Linux, Windows
- **Other:** Git, Excel, Word, PowerPoint, Figma, Canva, Wix