

Tomi Ayeko

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PROFILE

Cyber Security Engineering student with hands-on experience analyzing network activity and evaluating system vulnerabilities in a high-security government environment. Strong interest in exploring multiple cybersecurity domains such as network defense, cloud risk assessment, and security operations, with proven ability to apply AI tooling beyond basic code completion to accelerate technical workflows.

EDUCATION

B.S. in Cyber Security Engineering — George Mason University, Fairfax, VA

Aug 2024 – Present

Dean's List (2024) | GPA: 3.22 | Relevant coursework: Digital Systems Engineering, Systems Engineering Principles, Object-Oriented Design, Introduction to Cybersecurity, Computer Networking (in progress),

EXPERIENCE

Cybersecurity Extern — Hydroficient IoT Cyber Defense Externship

Sep 2026 – Present

- Performing STRIDE threat modeling on an IoT smart-water platform to map data flows and surface top security risks
- Building and securing an MQTT-based sensor pipeline in Python/Docker with TLS encryption and device certificate authentication
- Simulating replay attacks and tuning time-based/counter-based (HMAC) detection defenses
- Developing a real-time Streamlit security monitoring dashboard and compiling a Security Improvement Report deliverable

Hostess — Ashby Ponds Senior Living

Jan 2024 – Present

- Managed high-volume guest interactions and communicated across residents, staff, and guests to coordinate operations and resolve service issues under time pressure

Cyber Security Intern — CCI Program, CIA / NRO

Jun 2023 – Aug 2023

- Analyzed system and network logs to identify anomalies and support continuous monitoring and troubleshooting in a high-security environment
- Designed, built, and tested a GPS-based system to log and analyze signal behavior, supporting system evaluation and identification of potential vulnerabilities
- Investigated root causes of technical issues and documented findings to support control evaluation, team decision-making, and stakeholder communication

CERTIFICATIONS & ADDITIONAL COURSEWORK

- Microsoft Word Specialist Certified | Google Cybersecurity Professional Certification (in progress) | Microsoft Office Suite | Data Security and Databases (encryption, access control models)

PROJECTS

Active Host Defensive & Network Monitor

In progress

- Developing a host-based endpoint monitoring tool in Python that tracks real-time socket states via the macOS kernel and parses netstat data to alert on unauthorized external established connections

AI-Powered Threat Detection Log Analyzer

- Engineered a privacy-centric automation script in Python that streams raw server authentication telemetry into a locally hosted LLM (Ollama + Llama 3.1) to analyze real-time log anomalies and flag brute-force signatures while preserving full data privacy
- Implemented programmatic data pre-filtering logic to strip background network noise, reducing LLM context overhead and optimizing compute speed

Multi-Threaded Network Reconnaissance Port Scanner

- Engineered a multi-threaded network reconnaissance tool in Python (socket, threading) with a thread-safe queue that scaled scanning to audit 1,024 ports in 0.09 seconds
- Automated analysis of connection handshake status codes to map exposed access vectors and identify potential attack surfaces

Automated Cloud IAM Configuration Auditor

- Built an automated cloud infrastructure risk evaluation tool in Python (AWS SDK / Boto3) that continuously maps identity security baselines and flags over-privileged accounts, inactive access keys, and non-MFA compliant endpoints

Wireshark Network Traffic Analysis

- Captured and analyzed live network traffic to identify anomalies and support troubleshooting of network and system behavior

TECHNICAL SKILLS

- Cybersecurity & Security Operations:** CIA Triad, Least Privilege, Access Control, Risk Assessment, Encryption, Patch Management, MFA, Penetration Testing, Incident Response, EDR Concepts, Log Analysis
- Threats & Frameworks:** NIST Cybersecurity Framework (CSF), MITRE ATT&CK, Threat Modeling (STRIDE), Phishing & Malware Analysis, Attack Indicators (IOCs)
- Networking & Systems:** TCP/IP, DNS, Network Protocols, Perimeter Defense, Wireshark, Kali Linux, Linux/Windows Administration, Git, GitHub, VS Code, Magic SoSA (SysML/UML)
- Languages & Cloud:** Python, Java (OOP), AWS Core Services, Cloud Computing Fundamentals

- **AI & Security Automation:** Ollama, Llama 3.1, Local/Cloud LLM Deployment, Prompt Engineering, Log Anomaly Detection, Security Workflow Automation (Claude, Gemini)