

GABRIEL ADAMS

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EDUCATION

Tennessee Technological University	Cookeville, TN
<i>Bachelors of Science in Computer Science, Cybersecurity</i>	<i>Aug. 2022 – Dec. 2025</i>
Tennessee Technological University	Cookeville, TN
<i>Masters of Science in Information Assurance and Cybersecurity</i>	<i>Jan. 2026 – Dec. 2026</i>

ACCOLADES

CyberCorps: Scholarship for Service US of Personnel Management	Cookeville, TN
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CERTIFICATIONS

SY0-701 - CompTIA Security+	Issued: Nov. 1, 2024
<i>Valid Through: Nov. 1, 2027</i>	

EXPERIENCE

Satellite Security Lead Researcher	08/2024-Current
<i>Cybersecurity, Education, Research and Outreach Center (CEROC)</i>	<i>Cookeville, TN</i>

- Built three separate test beds to study and research the security of communications between satellites and command stations.
- Developed software to analyze transmission data based on frequency bands, binary data patterns, and time signatures.
- Analyzed and mitigated threats to satellite ground stations, including unauthorized access, jamming, and signal spoofing attacks.
- Researched countermeasures for side-channel attacks on satellite cryptographic modules, including timing, power, and fault-injection vulnerabilities.

IT Security Intern	05/2024-08/2024
<i>Rebo Lighting and Electronics</i>	<i>Sparta, TN</i>

- Implemented and managed Windows administration technologies such as Active Directory, Exchange Server, Group Policy Objects, DNS, DHCP, IIS.
- Managed client network security through installation of firewalls and VPNs.
- Investigated potential breaches of information security policy and took corrective action when necessary.
- Implemented and managed a SIEM to analyze network traffic.
- Successfully passed an ISO 27001 audit after implementing over 26 new security policies, 4 security tools, and delivering security training to employees.

Embedded Systems Security Analyst	05/2024-08/2024
<i>Center for Energy Systems Research</i>	<i>Cookeville, TN</i>

- Wrote code in C, C++, as well as Structured Text to manage communication between SCADA devices.
- Developed 8 different models for secure renewable energy system grids.
- Built an image for a portable RTAC compatible with the SCADA HIL interface.
- Assisted in completing a multi-million-dollar project for the CESR lab research.

AI Drone Security Researcher	07/2023-05/2024
<i>Cybersecurity, Education, Research and Outreach Center (CEROC)</i>	<i>Cookeville, TN</i>

- Utilized Wireshark to capture over 2TB of data to train an unsupervised AI security model.
- Successfully detected false-data injection, DOS, and MITM (man in the middle) attacks using the model.
- Worked as a team of 8 to successfully create the model, as well as simulate red team attacks on the model.

Embedded Systems Engineer	01/2023-05/2024
<i>Center for Energy Systems Research</i>	<i>Cookeville, TN</i>

- Developed software for electrical energy transfer through wireless means.
- Incorporated the embedded C language to create a successful energy transferring circuit.
- Will be titled as an engineer in planned publication under the Tennessee Technological University research department.

LEADERSHIP AND EXTRACURRICULARS

Defensive Cybersecurity Interest Group | 01/2024-Present

Tennessee Tech

- I am a current team lead, overseeing projects aimed at presenting cybersecurity concepts, managing a vSphere range, and preparing individuals for national cybersecurity competitions.

CyberEagles | 08/2024-Present

Tennessee Tech

- I have the role of Site Director in CyberEagles where I present current news regarding cybersecurity, communicate with guest speakers, and work as a team to invoke interest for the department.

TECHNICAL SKILLS

Languages: C/C++, x86 Assembly, Python, Powershell, Bash

IT Security: Network Administration, Windows Administration, Windows Forensics, Microsoft Entra, Linux Administration, Linux Forensics, SIEM Management, Vulnerability Analysis

Development: Git, Docker, Google Cloud Platform, Amazon Web Service, Linode, VS Code, Visual Studio, PyCharm

COMPETITIONS

Cybersecurity Collegiate Defensive Competition (CCDC) | 01/2025-05/2025

- In the spring of my senior year, I was honored to be selected as Captain of the CCDC team. In this role, I led our efforts to secure and defend an enterprise-grade network against an active red team, simulating real-world cybersecurity challenges.

Cyber Resiliency and Measurement Challenge (CRAM) | 08/2024-10/2024

Dahlgreen, Virginia

- This fall I built a team of 5 people in order to compete in a NAVSEA hosted competition to utilize AI/ML and Data Science to score systems based on resilience. I worked as the lead of the team, as I had prior AI and leadership experience. I was in charge of assigning responsibilities, scheduling deadlines, and acted as the lead AI/ML developer. After the first phase of examination, our team was chosen as one of 25 teams to be invited to compete in Dahlgreen, Virginia this October. This was the first time that Tennessee Tech has had a team submitted to a competition hosted by NAVSEA. The skills improved in this process: leadership, AI/ML, distributed computing, time management, Python development, Flask development, and creating high level documentation.

eCitadel | 05/2024

- This past spring I participated in a free, locally operated cyber competition where my team finished in the top 10. My responsibilities included handling the securing of the linux machines, handling communication among the team, and getting the team together. Some skills developed were: Linux hardening, log analysis, forensics, Linux user administration, and team communication.

National Cyber League (NCL) | 11/2023-11/2023

- Last fall I was part of a team that participated in the National Cyber League where we competed as a team for the first time together. Some skills I learned are: Open Source Intelligence, Cryptography, Log Analysis, Network Traffic Analysis, Scanning, Forensics, Password Cracking, recognizing Enumeration and Exploitation within logging, and Web Application Security.

HOBBIES

Home Lab | 01/2022-Present

- My home network consists of instances of: TrueNas, Windows Server 2022, 4 Windows computers on domain, an Ubuntu Server running Docker, Kali Linux, and a SIEM software (Wazuh) on a separate Ubuntu Server.

Fixing hardware | 01/2024-Present

- I have volunteered my time to fix many different peoples hardware this year. Most recently I traveled to fix and install over 15 Dell Optiplex's to a community center for an impoverished children's learning organization called 'Rise Up Grundy'.