Caleb Heller

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EDUCATION

Frostburg State University | *Bachelor of Science in Cybersecurity and Information Assurance* | Frostburg, MD   May 2024

Pursuing Master of Science in Computing Science   May 2025

Awards: 4x Dean's List, Outstanding Senior Service Award, Dr. Anne Crowe Leadership Award, NRHH Award

PROFESSIONAL EXPERIENCE

State of Maryland Department of IT | *Local Cybersecurity Intern* | Baltimore, MD   June 2024 – August 2024

- Participated in outreach initiatives and comprehensive assessments to support the State and Local Cybersecurity Grant Program.
- Oversaw meticulous documentation and contributed to various supporting roles within the OSM.

The Washington Center | Cybersecurity Accelerator Program Fellow | Washington, DC   April 2024
- Attended workshops on threat analysis, incident response, emerging technologies, enhancing practical skills & insight.
- Networked with senior cybersecurity executives, gaining insights into strategic initiatives, industry trends, & best practices.

Chesapeake Urology | IT Intern | Owing Mills, MD   June 2023 – August 2023
- Managed installation and maintenance of imaging devices vital for medical diagnostics.
- Conducted thorough quality assurance testing to ensure optimal performance of imaging systems.

PROJECTS

Cybersecurity Attack and Defense Simulation Project   April 2024
- Spearheaded the Red Team efforts in a simulated cyber attack, employing various penetration testing techniques such as social engineering, phishing, and exploiting vulnerabilities to breach security defenses and gain unauthorized access to critical systems and data.
- Designed and executed sophisticated attack vectors, including network reconnaissance, privilege escalation, and persistence mechanisms, to test the robustness of the Blue Team's defense strategies, providing valuable insights for improving overall cybersecurity posture.

Cybersecurity Education & Awarenwess Platform   February 2024
- Created a comprehensive platform featuring instructional videos, quizzes, and interactive content to educate businesses, individuals, and organizations on cybersecurity best practices.
- Designed content to cover various cybersecurity topics, enhancing user understanding and awareness through practical examples and assessments.

Mock Computer Forensic Investigation Project   December 2023
- Compiled a detailed report documenting the investigation process, findings, and conclusions, structured into three distinct stages: setup and simulation, forensic data collection and analysis, and identification of the attacker
- Identified the origin of the attack by meticulously analyzing the traffic patterns, pinpointing the source of excessive UDP packets emanating from a suspicious IP address

Penetration Testing Project   December 2022
- Conducted thorough penetration testing on a simulated network environment using Metasploit and Nmap
- Identified and exploited vulnerabilities through SQL injection, cross-site scripting (XSS), and privilege escalation to improve security posture.

Activities

- Sigma Alpha Epsilon, President, Recruitment Chair, & Treasurer of the Maryland Delta Chapter   2023-2024
- African Student Association, Publicist   2023-2024
- Cybersecurity Club, Member   2020-2024
- National Council of Negro Women, Member   2023-2024
- Alternative Break Trip - Hurricane Disaster Relief, Volunteer, New Orleans, LA   January 2024
- For Single Fathers Inc., Volunteer,   2022-2024

SKILLS

Skills: Adaptability, Attentive, Collaboration, Communication, Creative, Leadership, Problem Solving
Software: SQL, JavaScript, Python, Kali Linux, Excel, HTML, CSS, Java, Network Miner, and Wireshark