Hiller Hoover

Projects

- Website Development
  - Developed and maintained a personal website using Hugo
  - Built a CI/CD pipeline with Github and cloudflare to automate deployments.
- Personal Server
  - Utilized Open Source software to create a SSO MFA solution, hosting local services via docker and LXC containers allowing secure worldwide access with Cloudflare tunnels and a Reverse Proxy
  - Used a WAF to harden application hosts
  - Deployed Let's Encrypt wildcard certificates for HTTPS and managed DNS records
- VMWare Lab
  - Developed a virtual cluster for intercepting network traffic, conducting malware analysis, and implementing virtual networking solutions.
  - Performed vulnerability assessments on networked machines.
- Gaming Computer Assembly
  - Built and configured six custom gaming computers.
  - Researched and selected hardware components, interfacing with customers to align with their specifications and troubleshooting hardware issues.

Education

George Mason University, Fairfax, VA - *Master's of Science in Digital Forensics*
August 2024- Expected May 2026

George Mason University, Fairfax, VA - *Bachelor's of Applied Science in Cybersecurity*
January 2023- May 2025

Northern Virginia Community College, Sterling, VA- *Cybersecurity AAS*
August 2018 - August 2021

Technical Skills

Languages: Python, C++, Bash, HTML, CSS, JS, KQL, SQL, Norwegian
Virtualization: Virtualbox, VMWare, Proxmox, Docker, Hyper-V, Azure, WSL, Infrastructure as Code
Software: Wireshark, NMap, Snort, Metasploit, HxD, FTK Imager, NetworkMiner, Netwitness Investigator, Argus, Truxton CE, Autopsy, Redline, Nessus, Wazuh, Jira, SysInternals, MS Intune, MS Purview
Networking: TCP/IP, UDP, Netflow, SSL, Router configuration, Cabling, Firewalls, OpenVPN, Wireguard, Zero Trust, Reverse Proxies, IAM, DNS
Certifications: Security+ (Verification Link)
Forensics: Static analysis, dynamic analysis, Threat intelligence

Relevant Experience

US House of Representatives, Chief Administrative Officer - *Cybersecurity Intern*

- Research of potential exploits based on user or entity behaviors, endpoint threat detection, network behavior analytics, alerts/alarms, and managed security reports.
- Development of technical documentation, research and reports covering cybersecurity risk for on premise and cloud-based systems.
- Performing forensic analysis of AI artifacts on user endpoints

September 2025 - Present

Vicinity Energy - *Cybersecurity Intern*

- Developed and implemented a host-based firewall using CrowdStrike's Falcon SIEM and IDS/IPS.
- Successfully reduced the number of active vulnerabilities in CrowdStrike from over 8,000 to under 2,000.
- Identified and remediated vulnerabilities, reducing the risk score in Arctic Wolf from 8.2 to 6.9.
- Created custom PowerShell scripts for patch management across 700+ endpoints with NinjaOne.
- Configured multi-factor authentication (MFA) rules using Azure, affecting hundreds of users
- Used Purview and Intune to create device enrollment and Data Loss Prevention policies

May 2024 - May 2025

Extracurriculars

Appalachian Trail Hike:

- Completed a 2,200-mile hike along the Appalachian Trail over six months; managed gear, safety, and logistics.