

Hiller Hoover

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<https://www.hhoover.net>

Projects

- 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.
- Website Development
 - Developed and maintained a personal website using Hugo
 - Built a CI/CD pipeline with Github and cloudflare to automate deployments.

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, Norwegian (Limited Working Proficiency)

Operating Systems: Linux Mint, Kali Linux, Ubuntu, CentOS, Windows, MacOS, Debian

Virtualization: Virtualbox, VMWare, Proxmox, Docker, Hyper-V, Azure, WSL

Software: Wireshark, NMap, Snort, Metasploit, MySQL, SQLite, HxD, FTK Imager, NetworkMiner, NetWitness Investigator, Argus, Truxton CE, Autopsy, Redline, NetFlow, Nessus, Wazuh, Jira, Process Explorer, Process Monitor

Microsoft: MS Project, Word, Excel, Powerpoint, Vizio, PowerBI, Azure, Intune, Purview

Networking: TCP/IP, UDP, Data Encryption, Router configuration, Cabling, Firewalls, OpenVPN, Wireguard, Zero Trust, Reverse Proxies, IAM, DNS

Certifications: Studying for Security+ and GIAC

Relevant Experience

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 - Present

SportRock, LLC - Climbing Instructor

- Provided instruction and support to guests, addressing and resolving complaints.
- Managed front desk operations including guest check-ins and contact tracing.

May 2020 - February 2021

Extracurriculars

Appalachian Trail Hike:

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