Jonathan Beierle

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EXPERIENCE

Network Engineering Intern, HEB — Summer 2024, 2023, 2022 (8 months)

- Updated switch firmware to mitigate security vulnerabilities
- Contributed to several internally written network automation applications that were used to automatically shut down switchports and dynamically discover port profiles across 1000+ devices
- Ran audits on store infrastructure to maintain network performance, reliability, and security

National SimSpace Cyber Cup — March 2024

- Used various security tools such as Elastic, Splunk, and Security Onion to detect and respond to a variety of threats including LSASS dumping, lateral movement, and C2 operations
- Responded and documented security incidents in a simulated enterprise network
- Coordinated with a team of 6 people to respond to various active threats

Co-Captain, Department of Energy (DoE) CyberForce Competition — February 2024 - Present

- Detected and responded to various security incidents within a simulated network such as C2 operations, stored credential access, and data exfiltration
- Configured Active Directory environments to maximize security without compromising usability using utilities such as Group Policy Objects (GPOs), Windows Defender Application Control (WDAC), and Local Administrator Password Solution (LAPS)

Infrastructure Lead, UTSA Cyber Competitions Lab — January 2024 - Present

- Created Group Policy Objects to harden an Active Directory network with 25 workstations and 4 hypervisors
- Assisted with the setup and security of laboratory equipment, including a domain controller, email server, four Proxmox hypervisors, and 25 Windows workstations

Co-Captain, Collegiate Cyber Defense Competition (CCDC) — December 2023 - Present

- Competed in a simulated, high-stress competition to secure a network of devices against active adversaries while sustaining critical business operations
- Hardened and configured Microsoft Windows machines in an Active Directory environment using Group Policy, Registry modifications, and proper access controls
- Wrote extensive documentation regarding configuration of various Windows operating systems
- Coordinated with several specialized team members to effectively compete

TracerFIRE Competition — November 2023

- Leveraged the ELK stack, Sysmon logs, and other methods of log aggregation to investigate a simulated cyber-attack against a fictitious organization
- Analyzed lateral movement in a network by simulated advanced persistent threats (APTs)

Infrastructure Chair, UTSA Computer Security Association (CSA) — August 2023 – September 2024

- Established and secured hypervisors, a SAN, switches, and an Active Directory environment in data center infrastructure
- Implemented VPN, SDWAN, and network segmentation solutions

CERTIFICATIONS

CompTIA Security+	Expires January 2027
CompTIA Network+	Expires January 2027

EDUCATION

University of Texas at San Antonio (UTSA) — Expected Graduation: December 2025

Bachelor of Science in Computer Science — GPA: 3.96

PROJECTS

Windows Hardening Research: github.com/HullaBrian/Windows-Hardening — March 2024 - Present

- Research and documentation on Windows security – including GPOS, Windows Defender Application Control (WDAC), and Sysmon.

HashScout: github.com/HullaBrian/HashScout — June 2024

- Python application to recursively hash every file in a directory or .zip for use in forensics investigations