

# Zachary D. Henard

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Clearance: DOD Sponsored Secret Clearance (Active)

**CAREER SUMMARY:** A dedicated Computer Science student with a specialization in cybersecurity, possessing a robust background in system administration and cybersecurity solutions. Proficient in various programming languages and tools, supported by a portfolio of notable projects. Committed to enhancing security operations through innovative strategies and problem-solving. Holder of CompTIA Security+ and Microsoft SC-200 certifications.

## EDUCATION

### Tennessee Technological University

Cookeville, TN

*B.S Computer Science, concentration in cybersecurity, 3.9 GPA*

Projected May 2024

-Organizations: Honor's Society, CyberEagles, Offensive/Defensive Interest Groups, Student Veterans Organization

### Northeast State Community College

Blountville, TN

*A.S. Computer Science, 3.8 GPA*

May 2021

-Graduated with *Magna Cum Laude*.

-Placed on "President's List" every semester.

## EXPERIENCE

### Tennessee Valley Authority

Nashville, TN

*Technology & Innovation Intern*

January 2023 - Present

- Automating IOS upgrades for **523** Cisco devices using Ansible playbooks, achieving **95%** reduction in upgrade time.
- Significantly reducing verification time for **384** endpoints connectivity by **80%** utilizing PowerShell scripts and SSH.
- Developing and maintaining a script that automates verification and accuracy of ownership for **320** AD group owners.

### Conquest Cyber

Nashville, TN

*SOC Analyst Intern*

September 2022 – January 2023

- Developed **13 complex KQL queries** increasing efficiency of evidence collection by **30%**.
- Constructed CLI tool and browser extension, reducing documentation/analysis of evidence time by **50%**.
- Resolved **20 cases/day** gathering evidence from XSoar, Microsoft Azure/Sentinel, and QRadar.

### Intuitive Research & Technology

Huntsville, AL

*System Administrator Intern*

May 2022 – August 2022

- Automated Thin Client migration (**14 tasks**) for **300+ employees** removing disruption time.
- Served as the primary contact for Virtual Desktop Infrastructure issues for over **500** employees.
- Automated Re-imaging and conversion from Thick Client OS to Dell Wyse Thin Client OS for **80 workstations**.

### Army National Guard

Knoxville, TN

*Track Vehicle Mechanic*

April 2021 - Present

- Graduated Advanced Individual Training as the valedictorian of my class.
- Stepped up to act in an E6 position to ensure that the unit's motor pool was in a combat ready status.
- Experienced in handling confidential information and following strict security protocols.

## CERTIFICATIONS

- CompTIA Security+ | August 2022
- Microsoft SC-200: Security Operations Analyst | January 2023
- DOD Sponsored Secret Security clearance | March 2021

## COMPUTER LANGUAGES AND TOOLS

- Languages: C/C++, Python, JavaScript, SQL/KQL, and YAML.
- Unix: bash, Wireshark, Nmap, Metasploit, DirBuster, Ghidra, exploitdb, Kali, RHEL, and Ansible Tower.
- Windows: PowerShell, Batch, Windows Subsystem for Linux, WinPE, Firewall, and Registry.
- Virtualization: VMware(Workstation/Horizon/ESXi), Docker, and Google Compute Engine, EVE-NG, and GNS3.

## PROJECTS

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### SOC Multi-tool

- Developed an open-source Chrome extension that aggregates over **20** security investigation tools.
- Reached **#22 on GitHub Trending** and has garnered over **650** active users from the Chrome Web Store.
- Received positive reviews from multiple security blogs and shared by industry leaders on social media.
- Utilized a combination of JavaScript, HTML, and ManifestV3 to create a seamless and effective user experience.

### Home Lab

- Designed and managed a sophisticated home lab with ESXi 6.5/8 for virtual machines and containers.
- Implemented OPNsense as a firewall, DHCP server, and router for network security and integrity.
- Applied STIGs to align the ESXi environment with DoD security standards.
- Leveraged EVE-NG to replicate the configuration of intricate enterprise Cisco environments (IOS/IOS-XE).
- Utilized the simulated Cisco environments for robust testing of Ansible automation playbooks.
- Deployed Pi-hole as a DNS server, providing ad-blocking and privacy protection.
- Administer Windows Server 2020 domain controller for managing multiple Windows VMs.
- Employed Kali Linux (Original/Purple) for penetration testing and cybersecurity analysis.
- Configured managed switch for VLAN traffic segregation and network organization.

### LinkedIn Connector

- Developed a Python script leveraging Selenium for automated LinkedIn connection requests.
- Utilized undetected Chrome driver, random intervals, and user-agent spoofing for bot detection evasion.
- Achieved up to 1,000 weekly connection requests without triggering security measures.
- Employed XPaths for personalized connection messages based on the target's job title.
- Maintained consistent 100 daily connections without disruptions to account functionality.
- Implemented automatic removal of outdated pending connection requests for streamlined management.

### Anti Anti-VM

- Created a Batch script to bypass VM detection methods employed by software to identify OS environments.
- Modified Registry to eliminate instances of strings commonly targeted during VM detection.
- Spoofed hardware MAC addresses, mimicking legitimate vendor OUIs for user environment authenticity.
- Enabled passthrough of prerecorded video and audio as live content through a webcam.

### Thick Client Migrator

- Customized PowerShell script automating **14 tasks** for user environment migration from thick to thin clients.
- Embedded in user login script for seamless experience without manual intervention.
- Significantly increased efficiency, reducing user interruption by an average of **30 minutes** per user.

### Thick2Thin Converter

- Automated re-imaging and conversion of thick clients to thin clients.
- Utilized bootable flash drive with WinPE and Wyse converter.
- Communicated with a central directory using NAS for management and control.

### Currency Converter

- Developed a Chromium browser extension to convert web page prices to user's preferred currency.
- Utilized a REST API for live exchange rates and JavaScript for currency identification.
- Supports **270** currencies including cryptocurrencies for simplified global currency conversions.

## ADDITIONAL

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- Awards: Army Achievement Medal, President's List, Dean's List
- Competitions: Top 5% (329/6483) in HTB "CYBER APOCALYPSE 2023" CTF
- Soft Skills: Communication, teamwork, problem-solving, and time management.