

# Zachary D. Henard

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Clearance: Active DOD Sponsored Secret Clearance

**CAREER SUMMARY:** Computer Science senior specializing in cybersecurity, with a strong foundation in system administration. Skilled in multiple programming languages, underpinned by a significant project portfolio. Dedicated to advancing security operations with innovative approaches. Certified in CompTIA Security+ and Microsoft SC-200.

## EDUCATION

**Tennessee Technological University** Cookeville, TN  
*B.S Computer Science, concentration in cybersecurity, 3.8 GPA* Projected May 2024  
-Affiliations: Honor's Society, CyberEagles, Offensive/Defensive Cyber, and Student Veterans Organization.

**Northeast State Community College** Blountville, TN  
*A.S. Computer Science, 3.8 GPA* May 2021  
-Magna Cum Laude graduate.  
-Placed on "President's List" every semester.

## EXPERIENCE

**Tennessee Valley Authority** Nashville, TN  
*Technology & Innovation Intern* January 2023 - Present  
-Developed Ansible playbooks, automating IOS upgrades for 523 Cisco devices and reducing upgrade time by 95%.  
-Regularly conduct audits on Cisco equipment, ensuring they meet STIG guidelines and maintain DISA Compliance.  
-Created an internal PowerApp for room reservations, saving \$167,000 annually. Seamlessly integrated GraphAPI for real-time availability and automated new room configurations via Azure Power Automate.

**Conquest Cyber** Nashville, TN  
*SOC Analyst Intern* September 2022 – January 2023  
-Developed 13 complex KQL queries increasing efficiency of evidence collection by 30%.  
-Created a CLI tool and browser extension, slashing evidence analysis/documentation time by 50%.  
-Managed daily resolution of 20 cases using tools like 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.  
-Manage and protect sensitive data, upholding rigorous 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, 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 3000+ monthly 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 configuration 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 XPath 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; secured 10 of team's 33 flags.
- Soft Skills: Leadership, Adaptability, Resilience, Critical Thinking, and Collaboration