Seth Stemen

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EDUCATION

Ohio State University   **August 2021 - December 2025**
B.S. Computer Science and Engineering, Information Security Minor   Columbus, OH
- **GPA: 3.35**

CERTIFICATIONS & SKILLS

- **Certifications:** CompTIA Security+, CompTIA Network+, ISC2 Certified in Cybersecurity, Qualys Certified Specialist: Web Application Scanning, Foundational C# With Microsoft
- **Programming Languages:** Python, Java, C/C++/C#, Matlab, x86 Assembly, Powershell
- **Security Tools:** Qualys TotalAppSec (Formerly WAS), Crowdstrike EDR, Wazuh, pfSense, Wireshark, JADX
- **Developer & IT Tools:** Git/GitHub, Android Studio, NinjaRMM, NetAlly, Active Directory, DHCP, JAMF, TeamViewer
- **Hardware:** Arduino/ESP8266/Raspberry Pi
- **Operating Systems:** Linux, Windows
- **Competitions:** BuckeyeCTF (2022, 2023, 2024 (*9th Place*)), SAE AutoDrive Challenge II Year 4 Competition (*Presenter – Concept Design Event*), Buckeye Programming Competition 2024, CSAW CTF Qualifier 2022, UIUCTF 2022

RELEVANT EXPERIENCE

Ohio State University Department of Athletics   **September 2023 – Present**
IT Helpdesk Assistant   Columbus, OH
- Configured implementation of Qualys Web Application Scanning to identify vulnerabilities and create reports to facilitate timely remediation according to the university Information Security Control Requirements
- Wrote a library of PowerShell scripts to automate setup process for many possible deployment scenarios, wrote PowerShell scripts to automate cleaning of network shares in accordance with university data retention policies
- Troubleshoot computers and network configurations, remediate vulnerabilities and respond to CrowdStrike EDR alerts
  - Tools Used: CrowdStrike EDR, NinjaRMM, NetAlly, Active Directory, DHCP, JAMF, TeamViewer

Buckeye AutoDrive   **August 2024 – Present**
Vehicle Integration Developer   Columbus, OH
- Presented at the SAE AutoDrive Challenge II Year 4 Concept Design Event about new technologies added to the vehicle, assisted in troubleshooting issues with the vehicle during the competition
- Performed cybersecurity research using packet capture and reverse engineering tools (Wireshark, JADX) against an Android Auto infotainment unit to identify potential attack vectors
- Developed a custom Human Machine Interface (HMI) to be used in an autonomous vehicle, facilitated communication over the CAN Bus
  - Tools Used: Python, Kotlin, Android Studio, Vehicle Spy

PROJECTS

Homelab   [View Report](#)   **June 2025 - Present**
Simulated a production network using VirtualBox, with a Windows Server machine acting as a DHCP/DNS/AD DS server. Implemented Wazuh as a SIEM solution to monitor network endpoints, implemented pfSense to act as a firewall and router between virtual networks, and integrated pfSense alerts inside of Wazuh.

Virtual Penetration Testing Lab   [View Report](#)   **March 2024**
Created a virtual network in VirtualBox to facilitate penetration testing in a sandboxed environment. Used Kali Linux to attack vulnerable virtual machines and document findings about weaknesses found and exploited.

Remote Start IoT Device   [View Report](#)   **August 2025**
Configured an ESP8266 microcontroller to listen to an Adafruit IO Publisher/Subscriber feed to remotely turn on my desktop computer from anywhere in the world. Created a Python script to send signals from my desktop computer to the Adafruit IO server to power an indicator light on a dashboard. This configuration is being used to access my computer while away.

ADDITIONAL EXPERIENCE

New Albany Country Club   New Albany, OH
Lead Welcome Sites Attendant   **May 2022 – August 2023**
- Created training manual, maintained employee schedules, and trained new employees
- Managed rental locker database and monthly usage reports, oversaw Welcome Sites staff to ensure quality of work

Welcome Sites Attendant   **September 2020 – May 2022**
- Assisted members in person and over the phone, charged retail purchases
- **Employee Spotlight Award – April 2022**