

Johnathon Beuter

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Education

Iowa State University of Science and Technology, Ames IA

- Master of Science in Cyber Security January 2025 – May 2026
- Bachelor of Science in Cyber Security Engineering August 2021 – May 2025
- Minor in Spanish

SANS Institute, Bethesda MD

- GIAC GFACT Certification December 2023 – May 2024

Professional Experience

Cyber Security Teaching Assistant

Iowa State University of Science and Technology, Ames IA | August 2023 - Present

- Responsible for troubleshooting Metasploit exploits and virtual machine networking issues across 30+ labs serving 100+ students
- Revised 12+ lab exercises on lin/winPEAS, Bash scripting, nmap, and reverse shells, updating content and improving instructional quality
- Communicates complex technical concepts to diverse audiences in multiple formats daily
- Curate and deliver supplementary articles, tutorials, and resources to expand students' cybersecurity skills

Cyber Security Engineering Intern

Wellmark Blue Cross and Blue Shield, Des Moines IA | May 2025 – August 2025

- Led effort to audit Microsoft Configuration Manager (SCCM) and created pen test plan using SharpSCCM and ntlmrelayx to verify vulnerabilities
- Built an isolated sandbox environment using CAPEv2, Python, and Virtual Box to automate malware analysis process leading to a 25% reduction in analysis time
- Detected and mitigated network threats daily, using Palo Alto firewalls and Windows Defender EDR
- Automated the secure wiping of 200+ corporate devices, reducing wiping time by 75%

Advanced Course in Engineering (ACE) Internship

United States Air Force Research Laboratory, Rome NY | May 2024 - August 2024

- Engineered 3 offensive security tools using Nim, Python, and GO capable of performing Modbus denial of services attacks against Raspberry Pis simulating Operational Technology (OT) devices
- Led team of 15+ multinational military and civilian cyber experts in 52-hour military cyber exercise in which team was able to achieve victory in simulated cyber warfare
- Leveraged Sliver C2 to attack Active Directory utilizing lateral movement, persistence, and evasion
- Reverse-engineered packed malware samples using Ghidra and x64dbg, producing detailed technical documentation of findings

Activities

Engineers Without Borders (EWB) Volunteer

- Vice President of Engineering: Designed a water-tank monitoring device using LoRa, ESP8220, and C for remote data transmission
- Co-led international team of volunteers in Ghana to install a solar borehole, build a pit latrine, and assist in community outreach initiatives
- Implemented organization improvement for the organization informed by collaboration with other EWB chapters

Hacking and Cybersecurity Club

- CTF Team Captain: Organized weekly participation of club in national and international CTF competitions, increasing team involvement by 50%
- Delivered a one-hour lecture on Modbus attacks and an introduction to OT cyber security concepts
- Led teams in 6 Cyber Defense Competition (CDC), averaging a top three finish including first place finishes in both the national and international Iowa State CDCs

Side Projects

SSH Tunneling Lab [Fall 2025] - Personal

- Utilized Docker containers to create a network environment to practice SSH tunneling and lateral movement techniques used in red team operations

Active Directory Lab [Spring - Fall 2025] - Personal

- Deployed Windows Active Directory (AD) infrastructure in VirtualBox to strengthen skills in identity management, network security administration, and red teaming

Remote Access Trojan [Spring 2024] - Academic

- Built a C code based RAT for a digital forensics course and performed forensic analysis with Ghidra, Process Monitor, and Windows Event Viewer to identify malware artifacts

MQTT Server [Fall 2023] - Personal

- Configured an Ubuntu server to run MQTT and engineered networking to support communication with multiple Raspberry Pis locally and across the internet

Awards and Accolades

Member of the Year 2025 - Iowa State EWB

- Recognized for outstanding membership in the Iowa State Engineers Without Borders chapter, contributing to project planning, overseas work, and community outreach initiatives that advanced organizational goals

Best Project Award - Iowa State Senior Design Class

- Led a team to earn *Best Project Award* out of 20 competing groups in Iowa State's Computer Engineering Senior Design program, recognized for innovative design, technical execution, and effective collaboration

ACE Class Valedictorian and Distinguished Graduate

- Graduated as Valedictorian of a 30-person cyber warfare training program (ACE), comprised of college students, military personnel, and civilian contractors from government agencies and top universities