

James Joseph

Security Exploration Professional

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EDUCATION

Iowa State University: Ames, Iowa

May 2025

Degree: B.S. majoring in Cyber Security Engineering

Hacking and Cybersecurity Club: President (CTFs, business talks, and cyber news discussions)

Cyber Defense Competitions: Securing machines and identifying intrusions from professional pen testers.

Certifications: GFACT | GCLD

EXPERIENCE

Principal Financial Group – Cyber Security Intern

May 2023-August 2024

- Developed automation in **Jenkins** to remediate hundreds of secrets for SOC and other compliance purposes.
- Communicated with senior leadership to develop a framework around secret usage in code.
- Wrote automation scripts that reduced security audit speed from hours to minutes.

Collins Aerospace – Application Security Engineer

May 2022-August 2022

- Developed a **Splunk** dashboard to view application attack trends more easily across tens to hundreds of thousands of incidents per day.
- Produced infrastructure automation for **f5** using ansible and **Azure DevOps** (ADO) to reduce ticket time by 90%.
- Supported the team with **firewall** and network modifications where needed.

Myriad Advisor Solutions – IT Intern

December 2020–August 2021

- Developed a web app using a front-end template and a custom express back-end to increase Myriad's value add.
- Helped set up **Meraki** servers, switches, VPNs, and Wireless access points while working within clients' needs.
- Used **Powershell**, **Bash**, and Deluge (Zoho) for automation within the company to expedite workflow.
- Troubleshoot a variety of technical problems from clients at a tier 3 level.
- Managed applications and computers through **Azure's** cloud services to consolidate **layer 4-7 security** across employee systems.
- Monitored security resources across several networks and companies.
- Worked with upper management to **organize security protocols** and standards across the organization.

Goodwill of Central Iowa – Full Stack Developer

September 2019-July 2020

- Created an application using a **WASP** server stack that was used to reduce paper waste and make important information more accessible for tracking and use.
- Languages used include: **HTML**, **CSS**, **PHP**, **SQL**, **Node.JS**(express).

CTFs

- Used techniques such as **buffer overflow**, **ROP**, and **disassembly** to view hidden data in a program.
- Wrote scripts in **python** to automate exploits for **cookie poisoning**, **XSS**, **code injection**, and **XSRF**
- Made it to the **top ten percent** in the 2023 NSA Codebreaker challenge.
- Helped **manage** a university-wide CTF while making challenges for the **PWN** and **reverse engineering** categories. (See sp00kyCTF_2023 on my GitHub for more)

CDCs

- Setup and managed **Active Directory** on a mixed Windows and Linux environment.
- **Patched** web app and kernel **vulnerabilities**.
- Set-up **host-based** and **network-based firewalls** with **NAT** to limit traffic.