JOSEPH ABBATE

Cybersecurity Engineer

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EXPERIENCE

Information Security Intern
Citadel

📅 June 2024 - Aug. 2024   📍 New York, NY

Cyber Operations Intern
MITRE, Offensive Operations and Effects

📅 May 2023 - Aug. 2023   📍 McLean, VA

- Developed embedded security tool to demonstrate Counter-UAS and AIS Deterrent Strategies
- Identified security flaws in FAA-Enforced protocol and database API
- Placed first in Intern "Battle of the Bots" Reverse Engineering and Capability Development competition

Teaching Assistant
Rochester Institute of Technology

📅 Jan. 2022 - May 2024   📍 Rochester, NY

- Explain complex concepts to students in numerous Cybersecurity courses
- Provide external insights and uses for concepts learned in class.

PROJECTS

Realm (spellshift/realm)

📅 July 2023 - Ongoing

- Cross platform Red Team engagement platform with a focus on automation and reliability
- Contributor to Rust agent library and Golang control platform
- Implement numerous enumeration, access, and control methods

Proxstar (ComputerScienceHouse/proxstar)

📅 July. 2022 - May 2024

- Active Contributor to Organization project to manage Proxmox Proxmox cluster for users
- Used Proxmox API to configure Websocket VNC proxy between cluster and the end client

Steeloxide (jabbate19/steeloxide)

📅 May 2022 - Dec. 2022

- Compiled suite of various tools to assist in Blue Team defense for Red vs Blue Competitions in Rust
- Researched automatic methods of account/permission auditing, network traffic and process tracking, and analysis for malicious traffic activity

EDUCATION

B.S., Cybersecurity
Rochester Institute of Technology

📅 Aug. 2021 - Aug. 2024

Cumulative GPA: 3.87
Summa Cum Laude
Outstanding Undergraduate Scholar - 2024
Dean's List - All Semesters

SKILLS

Programming Languages

Python   Rust   Go   C   C++
Assembly   Java   JavaScript   PHP

Technologies

Git   Docker   Proxmox VE   S3
Kubernetes   OKD   FreeIPA   Ceph
Ansible   Puppet   Github CI/CD
Metasploit   Wireshark   SQL   MongoDB

EXTRACURRICULARS

Computer Science House
Lead System Administrator

- Maintain Proxmox, OKD (Kubernetes), and Ceph clusters alongside variety of open source projects for member usage
- Ensure proper security posture across network and investigate events

Collegiate Penetration Testing Competition
Member

- Competed in national competition to conduct a formal penetration test and report findings

RIT Security Club
Red Team Member, CTF Infrastructure Lead

- Develop tools to attack and maintain persistence on machines of various Operating Systems during Red vs Blue competitions
- Maintain Kubernetes cluster to support over 3000 participants in weeklong competition