

JOSEPH ABBATE

Cybersecurity Engineer

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EXPERIENCE

Information Security Intern

Citadel

June 2024 - Aug. 2024

New York, NY

- Implemented solutions for Data Loss Prevention/Insider Threat team
- Collaborated with business units to implement security controls
- Developed plan to significantly reduce repetitive workloads

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 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

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

- Service to provide managed Proxmox VMs with IP Registration
- 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 S3

Kubernetes OKD FreeIPA Ceph

Ansible Puppet Terraform CI/CD

Metasploit SQL MongoDB GCP

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

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

Collegiate Penetration Testing Competition

Member

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