JOSEPH ABBATE

Security Engineer and Builder

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EXPERIENCE

Security Engineer 2 - Insider Trust
Meta

📅 Oct 2024 - Present   📍 New York, NY

- Researched and deployed detections in new Data Loss Prevention space ahead of schedule in brand new TTP space
- Coordinated rapid development effort to detect newly discovered TTP in internal abuse space, combining datasets from various sources for highest fidelity signal
- Utilized AI to Improve Inefficient Automation, Reducing Compute Jobs by 99%

Information Security Intern - Insider Threat
Citadel

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

- Expanded detection coverage by developing framework to tag sensitive documents during development life cycle
- Designed system to reduce CVE detection time from hours to minutes via scalable syncing system

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

PROJECTS

Realm (spellshift/realm)

📅 July 2023 - Ongoing

- 6th Highest Contributor to Rust agent library and Golang control platform
- Ensured compatibility with FreeBSD systems and developed solutions for gaps in current library
- Implemented 12+ features to agent library, improved operator experience with improved credential UI

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
- Reduced hardening efforts from hours to minutes via automatic 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

Languages

Python   Rust   Go   C
C++   JavaScript

Technologies

Agentic Workflows
Data Loss Prevention   SIEM
SOAR Automation   Data Pipelines
Anomaly Detections   Kubernetes
Docker   Terraform   GCP

EXTRACURRICULARS

FIRST Robotics - Long Island
FIRST Technical Advisor

- Manage team of 20+ Volunteers, spearheading field management and control system support

Information Security Talent Search
Red Team Router Lead

- Lead team of 6 Red Team members to develop and deploy unique tools on hosts
- Utilize unique TTPs and Persistence for abnormal operating systems (FreeBSD, pfSense)

Computer Science House
Lead System Administrator

📅 2021-2024

- Maintained Proxmox, OKD (Kubernetes), and Ceph clusters alongside variety of open source projects for member usage