Maxwell Fusco

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WORK EXPERIENCE

Security Engineer Intern Remote 📍
Akamai Sept 2022 - Current 📅

- Implementing, maintaining and improving the accuracy of automation tools
- Analyzing & monitoring external attack surface, threats and develop mitigation
- Building proof of concept security control prototypes based on new threats

Penetration Testing Intern Austin, TX 📍
IBM X-Force Red May 2022 - Aug 2022 📅

- Produced long-term and ongoing security research on an open-source system-agnostic and modular enumeration framework written in Golang
- Developed offensive security skills in cryptography, OSINT, social engineering, password cracking and internal network, external network, web application, mobile, container, kubernetes, and mainframe consulting

Threat Hunting Intern Remote 📍
Cloudflare May 2021 - May 2022 📅

- Diagnosed security threats of low confidence items and created custom queries and detections based on new TTPs to find previously undetected items
- Authored security blog posts and training material for incoming threat hunters

Technical Consulting Engineer Co-Op Remote 📍
Cisco July 2020 - Feb 2021 📅

- Troubleshot industry network issues on Cisco's Server Virtualization Team

PERSONAL PROJECTS

goEnum System-Agnostic and Modular Enumeration Framework
github.com/goEnum/goEnum July 2022 - Current 📅

- Utilized Golang to build modular detection of vulnerabilities and misconfigurations across Linux, Windows, Mac, and other operating system
- Employed cross-compilation concepts to dynamically build modular code

Ops Bot II Modular Discord Bot for Automation and Orchestration
gitlab.ritsec.cloud/operations-program/ops-bot-ii Nov 2021 - Current 📅

- Utilized python to build and deploy customizable Discord bot
- Open-sourced, modularized, and documented code for open usage

IRSeC Store Ethereum Web3 Commerce Application Dec 2021 - Mar 2022 📅

- Deployed custom Ethereum network for maintaining transactions
- Built web front-end and API for interacting with Ethereum network

LEADERSHIP & COMMUNITY INVOLVEMENT

RITSEC Executive Board Vice President ('22-'23) & Tech Lead ('21 -'22)
- Served two years as a leader of RIT's largest academic club and the largest student-run collegiate cybersecurity club in technical and managerial roles

RIT CPTC Member Social Engineering & Web Lead ('22-'23)
- Represented RIT in the Collegiate Penetration Testing Competition
- Performed industry-level penetration testing in a competition environment

RITSEC Operations Team Member Automation Team ('22-'23)
- Built automation to maintain & deploy infrastructure on a hybrid compute stack
- Managed and maintained vital code-bases to RITSEC Operations

DEFCON 30 Red Team Village Challenge Author Pwn, Misc

NCAE Cyber Games Challenge Author Pwn, Crypto, Web, Misc

EDUCATION

B.S. & M.S of Computing Security
Minor: Mathematics Honors

Rochester Institute of Technology
Anticipated: Dec 2023 GPA: 4.0/4.0

SKILLS

Penetration Testing
Familiar in testing: WebApp, Internal and External Network, Container, and Mobile

Nmap | Burp Suite | Technical Writing
Wireshark | CrackMapExec | Shodan
Responder | Evil-WinRM | Metasploit

Red Teaming
Developed, maintained, and deployed custom tools in emulated environments

Mitre ATT&CK Framework | C2
Tool Development | Cyber Kill Chain
Covert Channels | Adversary Emulation

DevOps
Deployed, maintained, and automated hybrid network infrastructure

Openstack | Docker | Kubernetes | EXSi
Ansible | Terraform | Fleet | OSQuery
CI/CD | GitOps | Kibana

Development
Developed and maintained efficient, well documented, and effective code

Golang | Python | Bash | JavaScript | SQL
C/C++ | x86 Assembly | HTML | CSS | git
Jira | Secure Coding

Operating Systems
Effectively and efficiently navigate, utilize, control, and manage systems

Linux | Windows | MacOS | PfSense
OpenSense | FreeBSD | Cisco IOS

CERTIFICATIONS

HAM Radio Technician License
CCNA 200-301