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
- Modularized, documented, and licensed code for usage as an open-source project

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 (2022 - 2023) & Tech Lead (2021 - 2022)
- 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 (2022 - 2023)
- Represented RIT in the Collegiate Penetration Testing Competition
- Performed industry-level penetration testing in a competition environment

RITSEC Operations Team Member — Automation Team (2022 - 2023)
- 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 (2022)

NCAE Cyber Games Challenge Author — Pwn, Crypto, Web, Misc (2022 -2023)

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