

# Maxwell Fusco

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## WORK EXPERIENCE

### Security Engineer Intern

Akamai

Remote

Sept 2022 - Current

- Building proof of concept security control prototypes within the scope provided by the security leader and engineers
- Analyzing & monitoring external attack surface, threats and develop mitigation solutions to protect Akamai Computes services

### Penetration Testing Intern

IBM X-Force Red

Austin, TX

May 2022 - Aug 2022

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

### Threat Hunting Intern

Cloudflare

Remote

May 2021 - May 2022

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

### Technical Consulting Engineer Co-Op

Cisco

Remote

July 2020 - Feb 2021

- Troubleshooting 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

Team Member ('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 VSCode 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