

Michael Scalzetti

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Objective

Available January 2023 - August 2023

Seeking a cyber security co-op which focuses on networking, development operations security.

Education

Rochester Institute of Technology, Rochester NY

Bachelor of Science Degree, Computing Security

Expected Spring 2024

Skills

Languages: Python, Java, C, SQL, Go

Tools: Linux, BSD, Git, Docker, Kubernetes, SSH, Nmap, Ncat, Dig, Curl, Proxmox, Bash scripting, VMware, Networking, Firewalls, Wireshark

Employment

MetaCTF Inc. | *Digital Technology Intern*

Summer 2022

- Worked with a team to develop a CTF challenge platform using AWS, Docker, and Kubernetes.
- Lead the development of the backend API to allow automated management of infrastructure.
- Wrote documentation to explain our implementation of Kubernetes and how it should be managed.
- Deployed EKS and EC2 AWS instances to create a highly available back end.

SUNY Upstate Medical University | *IMT Intern*

Summer 2021

- Worked with Upstate's IMT Networking group, managing their enterprise Cisco network.
- Deployed core networking infrastructure such as switches and access points.

Activities

RITSEC | *Member*

Spring 2022-Current

- Active in the clubroom, Red Team Recruiting, Contagion, Remote Vulnerability and Penetration Testing, Wireless, and Operations Interest Groups;
- Member of Operations team, which plans competitions and manages RITSEC's server infrastructure.
- Attend weekly meetings and active in clubroom.

ISTS 2022 | *Blue Team Member* | **Placed 2nd**

Spring 2022

- Red vs Blue team competition Hosted by RITSEC for university students.
- Defended a network of machines against remote attacks carried out by professionals from the industry.
- Primarily responsible for managing networking and firewall equipment.

Hack Upstate 14 | *Competitor* | **Won the Best Hardware Hack Award**

Fall 2019

- Created a device that emulated a drum pad using a combination of an Arduino, Python, and MIDI.

Hack Upstate 13 | *Competitor*

Spring 2019

- Solo project focused on getting control of a drone through an unprotected telnet port.

Hack Upstate 12 | *Competitor* | **Won the Best User Experience Award**

Fall 2018

- Made an API wrapper using Python and used that to query, parsed and displayed product information.

Projects

Personal Server Management

Fall 2020-Current

- Designed a scalable server infrastructure based around Proxmox.
- Uses tools such as Docker, SSH, pfSense, and Proxmox's firewall utilities to facilitate practice and development of networking and security skills.

Shadow Snitch/Password Pitch

Spring 2022-Current

- Developed a shim that replaces the passwd command to reveal usernames and passwords.
- Usernames and passwords are passed to a remote server which can redirect information to an attacker.

A Star Maze Solver

Summer 2019-Winter 2021

- A Java program that reads, solves, and draws the solution to mazes using techniques learned in school.
- The project was later refactored, resulting in the code being significantly faster, more space efficient, and easier to read.

Vulnerability Assessment Project

Winter 2020

- Worked with a team, to assess the network security of a theoretical company
- Generated a full vulnerability report which included potential vulnerabilities, their CVE ID, their threat level, the likelihood it would be exploited, and steps the company could take to secure their network.