

# Michael Scalzetti

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VoxelVortex

## Objective

Available May 2022 - December 2022

Seeking a cyber security co-op between May and December of 2022 which focuses on networking, physical security, or application security.

## Skills

### Languages:

Python, Java, C, SQL

### Tools:

Linux, Git, Docker, SSH,  
Nmap, Ncat, Proxmox,  
Bash scripting, VMware,  
Networking, Wireshark .

## Education

**Rochester Institute of Technology**, Rochester NY

Bachelor of Science Degree, Computing Security *Expected Spring 2024*  
Fall 2020 Dean's List

## Employment

**SUNY Upstate Medical University**, IMT Intern

*Summer 2021*

- Worked with Upstate's IMT Networking group, managing their enterprise Cisco network.

## Activities

**RITSEC**, Member

*Spring 2022-Current*

- Attend weekly meetings, RCR, Contagion, and member talks.

**ISTS 2022**, Blue Team Member, **Placed 2<sup>nd</sup>**

*Spring 2022*

- 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*

- Developed a program with peers that emulated a drum pad using a combination of an Arduino, Python, and MIDI software.

**Hack Upstate 13**, Competitor

*Spring 2019*

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

**Hack Mohawk Valley**, Competitor

*Fall 2018*

- Worked with peers to create a community focused web site.
- Created a database and wrapper using SQLite and python.

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

*Fall 2018*

- Worked with a team to create a discord chat bot and API wrapper for TCGPlayer using Python.
- Queried, parsed, formatted, 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, and Proxmox's firewall utilities to facilitate practice and development of networking and security skills.

**Shadow Snitch**

*Spring 2022-Current*

- Developed a rootkit that replaces the passwd command.
- Reveals user passwords and allows root privileges to be hijacked.

**A Star Maze Solver**

*Summer 2019-Winter 2021*

- A Java program that reads, solves, and draws the solution to mazes.
- Devised to incorporate new tools and techniques learned at 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.