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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
Fall 2020 Dean's List

Expected Spring 2024

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 2nd**

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.