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Objective

Available June 2024 - Onward

Seeking a security engineering position which focuses on networking, and containerization technology, and Linux.

Education

Rochester Institute of Technology, Rochester NY
Bachelor of Science Degree, Cyber Security
Expected Spring 2024

Skills

Languages: Python, Bash, Java, C, SQL, Go
Tools: Linux, BSD, Docker, Kubernetes, SSH, Git, Networking, Firewalls, Nmap, Ncat, Nginx, Caddy, Proxmox, VMware, Wireshark, Cryptsetup, Osquery, Kibana, FleetDM

Employment

Akamai Technologies. | *Security Engineer Co-Op*   *January 2023-Current*
- Worked with the SOC team to perform threat hunts and expand visibility into company infrastructure.
- Researched, tested and documented findings of potential monitoring tools for company infrastructure.
- Created new performance testing framework for inhouse tools using bash and python scripting.
- Developed new threat hunt dashboards and wrote playbooks which documented their usage.

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, Physical Security Remote Vulnerability and Penetration Testing, Wireless, and Operations Interest Groups;
- Member of Operations team, which plans competitions and manages RITSEC's server infrastructure.
- Member of Red team, which develops and deploys offensive tools against other teams at competitions.
- Member of Black team for IRSEC, ISTS, and RITSEC CTF, which manages competition infrastructure.
- Attend weekly meetings and remains 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 13 | *Competitor*   Spring *2019*
- Solo project focused on getting control of a drone through an unprotected telnet port.

Projects

Personal Server Management   *Fall 2020-Current*
- Designed a scalable server infrastructure based around Proxmox.
- Uses tools such as Docker, Kubernetes, SSH, wireguard, pfSense, and Proxmox's firewall utilities to facilitate practice and development of networking and security skills.

Docker Depot   *Spring 2023-Current*
- Developed a tool which gives full remote access to the docker sock
- Can be used by an attacker to spin up malicious containers, or escelate to root user on host machine.

DockerSH   *Spring 2023*
- Developed a tool which replaces a normal SSH server with a read-only server without alerting the end user.
- Gives red team access to a machine and time to make changes without being intterupted by competitors.

Shadow Snitch/Password Pitch   *Spring 2022-Fall 2023*
- 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.