
EDUCATION & CREDENTIALS

University of South Florida - 3.7 GPA
CompTIA Security+
VMware Data Center Virtualization
EC-Council Certified Secure Computer User

B.S. in Cybersecurity - December 2023
(Expected) May 2023
July 2022
June 2022

Awards

Bright Futures Scholarship • Sunset Valley Homeowners Association Scholarship • Eagle Scout

SKILLS

Analytical Skills

- Reporting & Technical Writing
- Memory Forensics (Volatility)
- Network Traffic Analysis (Wireshark)
- OSINT & Sandboxing

Technologies/Environments

- VMware Virtualization Suite (vSphere, vCenter, Horizon, etc)
- Mitre ATT&CK Matrix
- Windows & Linux System Administration
- Kubernetes

Pentesting Tools

- Burpsuite
- Metasploit
- Nmap
- Nessus
- Kali Linux
- Dirsearch
- Hydra

Languages

- Python
- JavaScript
- PowerShell
- Bash
- Java
- C
- SQL

EXPERIENCE

27 Virtual,

Cybersecurity Contractor, Remote

(August 2022 - Current)

- Worked with VMware's PowerCLI library for PowerShell to **create scripts** to **efficiently automate** deployment of over **90 lab kits** across **42 servers**. Included automation of several enterprise tasks such as mass-reverting virtual image snapshots, and deploying dozens of vApps at a time.

27 Virtual,

Cybersecurity Intern, Tampa FL

(June 2022 - August 2022)

- IT consulting and education firm. Collaborated with a technical lead to manually deploy virtual lab environments through VMware's virtualization suite, including vSphere, vCenter, and Horizon, that consisted of **100s** of virtual machines for VMware education and certification classes.
- Tasked with the **validation and troubleshooting** of lab kits. Created accompanying documentation for finding, remediating, and preventing future errors.

LEADERSHIP

Whitehatters Computer Security Club,

Newsletter Committee Chair

(January 2022 - Current)

- Implemented weekly newsletters on various cybersecurity developments, and the club's performance in cybersecurity competitions and CTFs, that reached **thousands** of engineering students, professors, and alumni.

Whitehatters Computer Security Club

Red Team Teacher

(August 2022 - Current)

- Led meetings on **web exploitation** (on OverTheWire's Natas) and on **introductory penetration testing** (utilizing Metasploitable and TryHackMe's King of the Hill) for **dozens of members**.
- Participated in cybersecurity meetings involving hands-on experience with defensive and offensive security tools and methodologies. Attended regular meetings in system hardening, web exploitation, binary exploitation, team-building CTF practice, etc.

PROJECTS

Home Lab Maintainer

- Designed a home lab consisting of a **honeypot running Cowrie**, that recorded SSH logins, and let attackers run commands in a virtualized environment, sending information to a **Splunk server**.

TryHackMe King of the Hill "Auto-PWN" Scripts

- Implemented scripts for automation of TryHackMe's Attack/Defend "King of the Hill" competitions. The scripts **automatically exploit** a vulnerability, privilege escalate, and establish persistence on a machine, in a **real-time competitive environment**.

Steganography Shotgun

- Engineered a python script to assist with steganography CTF challenges, that would **automatically run a suite of several tools** on a given image, with different functions being run depending on the file given.

PicoCTF Challenge Automation

- Developed a series of python scripts that utilized useful libraries such as OS, Pwntools, and more to **automate the completion of PicoCTF challenges**.

Co-Founder of Protocol Security

- Co-founded Protocol security, a cybersecurity club and CTF team that has weekly meetups, and **regular participation** in both **online and in-person CTFs** and competitions.

Adversary Emulation Script (SADScript)

- Contributed to a script designed by a colleague, meant for testing hardening and blue teaming skills. **Personal contributions** to the script include **adversary emulation, persistence, and exfiltration**.

COMPETITIONS & CTFs

B-Sides Tampa 2023 Neon Temple CTF, April 2023

- Led a team to **2nd place** in an innovative and highly unusual CTF, where there was a heavy focus on **OSINT, critical thinking, social engineering, and attack/defense**.

PicoCTF 2023 Cybersecurity Competition, March 2023

- Contributing member to a team that scored in the **95th percentile/top 5%** of a global CTF competition between **1000s of teams**. Significant contributions include an RSA challenge with very little solves, and a series of reversing challenges involving the game "Core Wars".

Hackabull 2023 CTF, March 2023

- Organized and led a team that **scored the most points, coming in first place** of the unregistered teams. Significant contributions include a cryptography RSA challenge that involves using **Pollard's p-1 factorization attack** in python to factor a 2048 bit modulus.

Cyberforce Competition, November 2022

- Placed within the **upper third** of teams as the **team co-captain** of the Fall 2022 Cyberforce Competition, hosted by the department of energy. This competition involved security analyst work such as **forensics, hardening, and incident response** on an **AWS network** of several virtual machines.

B-Sides Tampa 2022 CTF Cybersecurity Competition, April 2022

- Led a team to **8th out of 28** in a collegiate competition that tested intermediate proficiencies in web exploitation, forensics, reverse engineering, and binary exploitation.