

## EDUCATION & CREDENTIALS

Certified Red Team Operator ( <b>CRTO</b> )	August - 2023
HTB Certified Penetration Testing Specialist ( <b>CPTS</b> )	June - 2023
HTB Certified Bug Bounty Hunter ( <b>CBBH</b> )	January - 2023
HTB Genesis - Pro Labs Certified	March - 2023
Practical Network Penetration Tester ( <b>PNPT</b> )	April - 2023
CompTIA <b>Security+</b> Certified	August - 2022
University of South Florida - <b>3.65 GPA</b>	B.S. in Cybersecurity – 2023

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## PROFESSIONAL EXPERIENCE

### Synack, Remote

*Vulnerability Operator Intern* (July 2023 - Present)

- Working to validate the technical stature of offensive security exploits through threat emulation testing. This responsibility involved utilizing *web application pentesting* tools such as **Burpsuite Pro** and *API testing* tools such as **Postman**.
- Conducted internalized **penetration testing** campaigns on inactive bug bounty listings hosted through Synack's proprietary SHST platform.
- Conducted rigorous **mission testing**, corroborating numerous cybersecurity exploits such as XSS, SQLi, and leaked information with completed reports, in order to verify the technical actions performed during the report creation process.

#### Key Achievement:

Successfully validated the effectiveness of offensive security exploits and conducted thorough mission testing to verify technical actions, reinforcing cybersecurity efforts that play into offensive security testing and redteaming.

### Flowers Foods, Remote

*Cybersecurity Apprentice* (September 2022 - September 2023)

- Utilized **QRadar**, **Okta**, **ServiceNow**, and **Cortex** to analyze internal incidents to perform historical analysis on the perceived threat. Integration of all these tools facilitated *access management* within customer **Active Directory** (AD) environments.
- Utilized **Tenable** to conduct vulnerability scans identifying anomalous activity within customer on-prem and cloud (**Azure**) environments.
- Practiced skills of **sandboxing** (ANY.RUN) along with various **OSINT** sources to build context for recurring incidents.

#### Key Achievement:

I have streamlined incident response operations within the company by creating a *process flow* which decreases redundancy in the incident analysis and remediation process.

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## INVOLVEMENTS

### Whitehatters Computer Security Club, USF

*Red Team Teacher* (December 2021 - Present)

- Acted as a mentor and assistant to many beginner cybersecurity students.
- Developed challenges and helped coordinate a custom CTF teaching high school students cybersecurity skills in Florida districts (**50+ high school students taught**).
- Served as a teacher of penetration methodologies and redteaming to the Whitehatters Security Club member base.

#### Key Achievement:

As a leader of the Whitehatter's Red Team committee, I have taught and refined critical skills to be used in cybersecurity challenges (CTFs) that test skills of web exploitation and OSINT.

## Protocol Security, Tampa FL

**Founder** (December 2022 - Present)

- Founded a local cybersecurity community dedicated to sharing insights in information security and software engineering while actively participating in national and local Capture The Flag (CTF) competitions.
- Organized meetings centered around Hack The Box and penetration testing challenges, and actively engaged in BSides security conferences, participating in associated CTF events.

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## PROJECTS

### Personal Website, *squarezero.dev*

- I have created my personal website where I blog about my personal projects and writeups. I have two main projects posted on my website, **Project Akane (personal AI like Alexa)** and a **keylogger** that interacts with a Discord webhook.

### Hack The Box, *Hacker*

- On the HackTheBox platform, I have completed over **70** modules across the **HTB Academy** program, and have achieved the reputable *Hacker* rank. To further my penetration testing mastery, I successfully completed the HackTheBox Genesis Pro Lab program.

### TryHackMe, *Top 1%*

- I have completed several learning paths and cybersecurity rooms across the **TryHackMe** platform, netting me a placement among the **top 1% (<10000)** of users on the platform.

### Home Lab Maintainer, *Personal*

- Built a **home lab** which currently hosts a **PiHole**, penetration testing lab, and a sandbox virtual machine. I am using Proxmox to maintain and conduct research within this lab.

### CTF Automation, *overthewire.org | CTF*

- After solving various cybersecurity challenge, I have created automated solutions for those hosted on *overthewire.org*, and those which I have taken part of as a member of USF and the Whitehatters club.

### Mobile Pentesting Research, *Research*

- Following TCM Security's academy courses and from my work at Synack, I have researched and performed multiple POC exploitations of **Android** and **IOS** apps using tools such as **JADX**, **MobSF**, **Burp**, and **FRIDA**.

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## SKILLS

### Analytical Skills

- Memory Forensics (Volatility)
- Network Traffic Analysis (Wireshark)
- OSINT & Sandboxing
- API Testing
- Web Application Penetration Testing
- Mobile Penetration Testing

### Technologies/Environments

- QRadar
- Cortex
- MySQL
- Windows and Linux
- VMware & VirtualBox
- ServiceNow
- Okta
- ORCA
- MobSF
- JADX

### Pentesting Tools

- Burpsuite Pro & ZAP
- Metasploit
- Nmap & Nessus
- Ffuf & Wfuzz
- Feroxbuster
- Tenable
- FRIDA

### Programming Languages

- Python
- Bash
- C
- Java
- CSS
- HTML

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## ACHIEVEMENTS

### HackTheBox CTF @USF, *USF*

- **Placed 1st** (2022, 2023); the CTF which included forensics, webapp exploitation, and reverse engineering challenges.

### HackSpaceCon Pentesting CTF, *Kennedy Space Center*

- **Placed 3rd** in a CTF hosted by Dark Wolf; competition consisted of redteam professionals in pentesting.

### Saint Leo University CTF, *Saint Leo University*

- **Placed 2nd** out of six teams in a local collegiate competition. The CTF involved challenges centered around broken authentication, **memory forensics**, **OS injection**, and cryptographic algorithm exploitation.