

#### Arlington, VA

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# Summary\_

Software Engineering and Cyber Security Expert with Electrical Engineering background. More than 10 years software development experience in many languages from x86 and ARM Assembly to Python. Experience in SOC, Incident Response and Red Team roles. Passion for building elegant tools and frameworks to automate and simplify operations.

# Work Experience

### **Huntress Labs**

SECURITY RESEARCHER

- Technical expert performing static and dynamic binary analysis of malicious payloads.
- Research and development of new features for Huntress platform to extend detection and response capabilities.
- Testing partner software to identify, disclose and remediate potential vulnerabilities.

## **US Cyber Command**

TASK FORCE TECHNICAL DIRECTOR

- Lead the research and development of capabilities and tools supporting DoD missions in cyberspace.
- Developed and deployed software and hardware load-out for deployable incident response teams.
- · Developed incident response scenarios to provide analyst training and improve mission effectiveness.
- Qualified Mission Commander and Host Analyst.

#### **Coast Guard Cyber Protection Team**

MISSION ELEMENT LEAD

- · First responder for numerous network security incidents threatening National Critical Infrastructure
- Developed SOP and training requirements for incoming personnel.
- Procured, configured and deployed state of the art incident response hardware platform.

### **Coast Guard Security Operations Center**

INFRASTRUCTURE SUPPORT BRANCH LEAD

- Operation and Maintenance of all network defence infrastructure including Intrusion Prevention and Detection Systems, Data-Loss Prevention, Web Content Filter, and Firewalls.
- Battle Watch Captain supervising security and operational control over all IT systems across the Coast Guard.

### **Coast Guard Cutter Bertholf**

COMBAT INFORMATION CENTER OFFICER

- · Responsible for combat and communications equiment and operational planning.
- Assistant Command Security Officer managed physical, information and operational security programs for entire crew.

### **National Security Agency**

INTERNSHIP

- Applied systems-programming expertise to reverse engineer unknown software and catalog all code-paths for further analysis.
- Performed static and dynamic analysis on malware to identify and report all observed activity.

# **Certifications**

Dec 2018	B Offensive Security Certified Professional (OSCP), Certification ID: OS-101-017541	Offensive Security
Oct 2020	Exploit Researcher and Advanced Penetration Tester (GXPN), Certification ID: 9192230	GIAC
Dec 2019	Offensive Security Certified Expert (OSCE), Certification ID: OS-CTP-11344	Offensive Security
Feb 2020	Offensive Security Web Expert (OSWE), Certification ID: OS-AWAE-02880	Offensive Security
Mar 2020	Certified Professional Penetration Tester (eCPPT), Certification ID: 9831814	eLearnSecurity
Feb 2020	Offensive Security Wireless Professional (OSWP), Certification ID: OS-BWA-036075	Offensive Security
Dec 2018	3 Certified Information Systems Security Professional (CISSP), Certification ID: 703304	ISC2
Feb 2022	Offensive Security Experience Penetration Tester (OSEP), Certification ID: OSEP-10202	Offensive Security
Mar 2021	Certified Exploit Developer (eCXD), Certification ID: 9573003	eLearnSecurity

# May 2016 - Nov 2017

Alameda, CA

Arlington, VA

Jul 2021 - Present

Fort Meade, MD

Washington, DC Feb 2019 - Jun 2020

Washington, DC

Nov 2017 - Nov 2018

# Fort Meade, MD

Jun 2015 - Jul 2015

# **Notable Projects**

# **CVE Credits**

### Reported

Disclosed and assisted in remediation of the following CVE IDs: CVE-2021-42258, CVE-2021-42344, CVE-2021-42345, CVE-2021-42346, CVE-2021-42571, CVE-2021-42572, CVE-2021-42573, CVE-2021-42741, CVE-2021-42742.

## pwncat

## CREATOR

Full featured agentless C2 platform built on top of a basic shell providing stable interactive sessions as well as an extensive pluggable API for automated enumeration, persistence, privilege escalation, and report generation.

# Katana

CO-CREATOR

Automated Capture the Flag (CTF) problem solver. Implements a multi-threaded problem identification and solution framework capable of automatically solving cyber security challenges from a variety of categories.

# **CTF4Hire**

### LEAD SYSTEM ENGINEER. CHALLENGE DEVELOPER

Designed and implemented scalable automated event infrastructure utilizing Kubernetes on Google Cloud Platform supporting over 5000 simultaneous players with personally assigned challenge machines. Held events for multiple worldwide conferences and companies including HackerOne, BSidesBoston and GrimmCon.

## **StewieOS**

#### CREATOR

Demonstrated expertise in low-level software and hardware programming. Designed and implemented POSIX-like kernel for the x86 family of processors. Full multitasking support. Custom device drivers for common hardware as well as implementations of common userland utilities.

# Education

## **U.S. Coast Guard Academy**

**B.S. IN ELECTRICAL ENGINEERING** 

https://cve.mitre.org

### github.com/calebstewart/pwncat

## Python, C, C#

# github.com/johnhammond/katana

Python

# github.com/ctf4hire

# Python, Kubernetes, C, Assembly, GKE

github.com/calebstewart/stewieos

New London, CT Jun 2012 - May 2016

x86 Assembly, C