

# James Campbell

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## Education

### United States Coast Guard Academy

May 2023

*Bachelor of Science in Electrical Engineering (GPA: 3.86 / 4.00)*

*New London, CT*

- **Relevant Coursework:** Advanced Computer Network Security, Introduction to Computer Networks, Operating Systems, Databases

## Experience

### CGCYBER Network Operations and Security Center

Jun 2023 – Present

*Battle Watch Captain*

*Washington, DC*

- Leads, oversees, and coordinates 24/7 watch floor for cybersecurity operations throughout the CG enterprise mission platform.
- Managed response to over 30 network outages across the Coast Guard and ensured timely response from CG personnel and contractors, enabling Coast Guard operations for over 60k+ users.
- Acts as direct command representative for CGCYBER (O-7) to USCYBERCOM (O-10) and Joint Force HQ (O-9)

### CyberDawn

Jun 2021

*Defensive Cyber Team Lead/Analyst*

*Sacramento, California*

- Lead team of cadets and Cyber Protection Team analysts during joint service cyber exercise to detect and remediate threats in an emulated corporate network environment.
- Briefed daily status to National Guard O-7, including the of the attacks on the CIA triad, steps taken towards remediation, and lessons learned.
- Contributed technical expertise in examining complex network and host logs to determine detailed exploit chain utilized by simulated adversaries .

### Coast Guard Academy Cyber Team

Aug 2019 – May 2023

*Competition Team Member*

*New London, Connecticut*

- Lead the development and coordination of 7 cyber security competitions that enhanced the cyber security knowledge of participants.
- Lead maintainer of the cyber team exploitation network enabling for the development and research of malicious cyber programs while protecting devices out side of the segmented network.
- Participated in over 100 cyber competitions against international competitors, other service academies, and cyber security experts.

## Projects

### OpenBridge | C++, Boat Network Security, NMEA2000, CAN Bus

- Led the development and research of an embedded device to spoof key sensor data on NMEA2000 networks.
- Designed and deployed custom hardware and firmware for the device while keeping the cost of the device to less than 50 US Dollars per unit.
- Research was presented at the "HackTheSea" village during DEFCON29. OpenBridge

### pySPY | Python, WiFi, Multi-Threaded Programming

- Developed a python WiFi exploitation toolkit for the passive WiFi reconnaissance, device deauthentication, and WiFi Handshake collection .
- Built a custom command line interface to minimize barrier for new users while still providing advance customization options.

## Technical Skills

**Certifications:** OSEP, OSCP, CISSP, GCIH, Security+

**Languages:** Python, Go, C++, C, Javascript, Rust, Bash

**Technologies:** YARA, Elastic, Flask, Express.js, TensorFlow, PyTorch, Node.js

**Concepts:** Malware Analysis, AV Evasion, Artificial Intelligence, Machine Learning, Neural Networks, API, Agile Methodology, Cloud Computing