

# Charles A. Adams IV

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Portfolio: <https://caadams4.github.io/> | CTF Writeups: <https://caadams4.github.io/cyberblog/>

## PROFESSIONAL SUMMARY

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As a student veteran with 8 years of experience in system administration, I am pivoting to information security. My university education consists of a hybrid of software and cybersecurity engineering. I am a capture-the-flag competitor and desire to continue serving the United States by using my skills to secure critical infrastructure and information systems. Secret security clearance held 2012-2022.

## SKILLS

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- **Languages:** JavaScript; Python3; C/C++; x86 Assembly
- **Tech:** Kali Linux, Ubuntu, Wireshark, SQL, Ghidra, Pwntools, GNU debugger (gdb), Burp Suite, Metasploit, OpenVAS, Docker, Kubernetes, Uncomplicated Firewall (UFW), Windows, Google Cloud Platform, NodeJS

## EDUCATION

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### University of Delaware

Aug 2020 – May 2024

- **Major:** B.S in Computer Science with a concentration in Cybersecurity – 37 of 40 classes complete
- **Clubs:** University of Delaware Capture the Flag Team

## WORK EXPERIENCE

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### System Administrator

### United States Marine Corps

Aug 2012 – Aug 2020

- Created a trouble ticket tracking website that ensured 100% of problems were logged, tracked, and solved
- Identified, troubleshooted, and resolved over 500 technical computer, server, and network problems
- Led teams of 5 employees in 11 expeditionary deployments to build computer and radio networks overseas
- Automated 20 routine tasks on systems with shell and Python scripting saving 5 worker hours per day
- Explained technical topics, problems, and projects to mid-level or executive leaders over 48 times
- Performed permission audits of over 400 users and 50 groups, following best cybersecurity practices
- Conducted training sessions on cybersecurity posturing and best practices for over 300 employees
- Led 3 process improvement projects in aviation manufacturing, each with a diverse team of up to 15 members. One of the three projects I led aimed to improve the KC-130 propeller repair process, resulting in a monthly savings of \$24,000 in maintenance and manpower costs.

## PROJECT EXPERIENCE

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**Campus Meet Web App:** Class Project – Fall 2022 – <https://github.com/caadams4/campus-club>

- Full-stack web app. Students at the University of Delaware can attend events around campus. Written predominantly in TypeScript. Built with MongoDB, Express, Angular, and NodeJS

**CTF Pwn Project:** Class Project – Spring 2022

- Perform x86 exploits by reverse engineering a binary file with radare2, Ghidra, or GNU debugger, then perform simple buffer overflows, ROP chains, and heap exploits to achieve remote code execution

**CTF Web Application Security Project:** Class Project – Fall 2021

- Solve a series of challenges from the OWASP Top 10 categories for points. Problems included SQL injection, cookie stealing, cross-site request forgery, cryptography, and blind command injection

**DIY-Discord Web App:** Personal Project – Fall 2021 – [https://github.com/caadams4/my\\_very\\_own\\_discord](https://github.com/caadams4/my_very_own_discord)

- Frontend web app intended to be a CTF web security problem. Built with HTML, JavaScript, and Firebase

**Othello Game:** Class Project – Summer 2021 – <https://github.com/caadams4/Othello-Game>

- Linux terminal-based game played with one human player vs. an AI, or two human players. Built with C++