Charles A. Adams IV

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

PROFESSIONAL SUMMARY

A student veteran with 8 years of experience in system administration pivoting to offensive security. My university education consists of a hybrid of software and cybersecurity engineering. I am a capture-the-flag competitor that participates in weekly competitions. I 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

- **Programming Languages**: JavaScript; Python3; C/C++; BASH; x86 Assembly
- **General:** Linux, Windows, Unix, VMware, Github, Wireshark, Ghidra, pwntools, Metasploit, BASH/Python scripting, Docker, Kubernetes, vulnerability analysis, x86 exploit development, agile development

EDUCATION

University of Delaware   **Aug 2020 - May 2024**
- **Major:** B.S in Computer Science with a concentration in Cybersecurity - 3.59 GPA
- **Clubs:** University of Delaware Capture the Flag Team

WORK EXPERIENCE

System Administrator   **United States Marine Corps**   **Aug 2012 - Aug 2020**
- Created, configured, and maintained a suite of 9 VMware virtual servers and 3 physical servers
- Identified and resolved over 500 computer, server, and network software and hardware 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

File Transfer App: Class Project - Spring 2023 - https://github.com/caadams4/file-transfer-application
- Linux TCP file transfer app written in C. Client requests a file from the server, and the server sends it

Campus Meet Web App: Class Project - Fall 2022 - https://github.com/caadams4/campus-club
- Full-stack web app developed with Agile. 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
- CTF web security problem – can you gain admin access? Built with HTML, JavaScript, and Firebase