

Adam Caudle

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Executive Summary

- WSU Computer Science student pursuing a bachelor's in computer science and cybersecurity certificate
- Over 2 years of hands-on experience concerning cyber-security, cyber-warfare, programming, software development, machine learning, and networking
- Social and outgoing with a passion for learning, trying new things, and working on team projects

Education

Washington State University

Bachelor of Science in Computer Science (3.86 GPA)

Expected May 2026

CySER Cybersecurity Fundamentals Certificate

Expected May 2026

CompTIA Security+ Certificate

Earned Nov 2024

Tau Beta Pi Engineering Honors Society Member

Earned Dec 2024

Technical Skills

Languages: Python, C/C++, Java, HTML/CSS, Golang, JavaScript, SQLite, Mips, VHDL

Frameworks: Flask, Django, React, Angular, Logisim, Vivado

Developer Tools: Git, GitHub, Docker, VS Code, Visual Studio, PyCharm, Google Cloud Platform

Libraries: Pandas, NumPy, Matplotlib, Pytorch, PitchShift

Experience

Advanced Course in Engineering (ACE) Intern

May 2024 – Aug 2024

Griffiss Institute and Air Force Research Laboratory (AFRL)

- Led a squadron in simulated multi-domain cyber operations resulting in mission completion and a debrief on lessons learned
- Constructed synthetic data and custom datasets for research involving object detection enabling the project's proof of concept
- Completed challenge problems for red-teaming, malware analysis, covert channels, cryptography, hardware security, and IOT security resulting in staff-graded documentation on solutions
- Guided a cyber team during the prep and execution of a 56-hour capstone event causing the exfiltration of sensitive data from adversary networks and denial of service to the enemy team
- Participated in Gettysburg Staff-ride and leadership analysis leading to a report on leadership lessons learned from the battle of Gettysburg
- Placed 3rd out of 32 other American interns when ranked in technical skills, leadership, and writing ability

Air Force Reserve Officer Training Core (AFROTC) Cadet

May 2019 – Present

Washington State University, Detachment 905

Pullman, WA

- Guided a squadron of Cadets in the development and preparation for AFROTC Field Training resulting in 24 cadets attending and graduating Field Training.
- Delegated and communicated tasks and scheduling as Detachment Executive Officer by creating a new online scheduling system and tasking list for leadership.

Information Technology Support Tech

Dec 2022 – Present

Washington State University Crimson Service Desk

Pullman, WA

- Communicated with managers to perform maintenance on campus computers resulting in over 30 solved issues for classroom technology support
- Completed over 1,300 Jira tickets for faculty, staff, and students enabling and improving operations for the university

WSU Cybersecurity Club Outreach Officer

May 2023-Present

Washington State University Registered Student Organizations

Pullman, WA

- Earned over 2,000 points during Spokane Cyber Cup helping our team place second in our division
- Led exploitation of systems, planning, and device enumeration, enabling my team to place first in the national Viceroy Spectral Cloak competition
- Competed in individual and team competitions in the National Cyber League developing skills and demonstrating competitiveness at the national level

Viceroy MAVEN intern

May 2023 – Jul 2023

Griffiss Institute and AFRL

Rome, NY

- Escorted an offensive cyber team during a capstone infiltration event enabling infiltration of the target network
- Contributed code for research on object detection resulting in successful robotics navigation based on ML utilizing hyperdimensional computing
- Wrote a vulnerability assessment on a complex cyber system providing theoretical fixes to improve system security

Projects

Synthetic Adversarial and Natural Data generation (S.A.N.D) | *Python, Pytorch, Matplotlib*

Jun 2024 – Aug2024

- Worked with a team to simulate and script digital environments to train object detection models resulting in proof of concept for the research project
- Constructed the object detection neural network enabling project demonstration
- Created custom dataset class and neural network with Pytorch enabling training of model
- Developed multiple virtual environments in Unreal Engine 5 enabling team member's success

Audio Steganography Covert Channel | *Python, Pydub, PitchShift, Git*

Jul 2024

- Worked with a group on the development of an audio Steganography covert channel resulting in a completed channel
- Helped utilize signal processing to pitch shift audio enabling the primary transmission method

32-bit Single Cycle MIPS ALU | *Logisim*

Mar 2024

- Designed a complete 32-bit ALU in Logisim resulting in an operational simulated ALU
- Designed operation codes and performs basic functions to accomplish ALU functions.

Tutoring Scheduling Web-app | *Python, Django, Flask, Git*

Sep 2023 – Dec 2023

- Developed a full-stack web application using Django and React resulting in a completed functional product
- Aided in implementing the calendar, scheduling, messaging, and email reminders enabling successful system functionality
- Developed all unit tests and framework for the application resulting in a perfect score for our supervisor's testing criteria
- Visualized GitHub data to show collaboration demonstrating near-perfect history, contribution, and version control to our supervisor