Camden Harris

425-572-2326 camdenharris@gmail.com linkedin.com/in/camden-harris/ github.com/Cjh4444

Education

University of Washington Expected June 2028

Bachelor of Science in Computer Science (GPA: 3.77 / 4.00) *Seattle, Washington*

- **Relevant Coursework:** Systems Programming (C), Data Structures and Algorithms (Java), Intro to Data Science (Python), Hardware/Software Interface (C/Assembly), Software Design and Implementation (Design/Theory)

Experience

Batman's Kitchen - UW Cybersecurity Club September 2024 – Present

Officer - MITRE eCTF (May 2024 - Present) *Seattle, Washington*

- Built cybersecurity skills in secure programming, binary exploitation, web security, and reverse engineering through weekly workshops and CTFs
- Helped design curriculum for students new to cybersecurity related to cryptography, low level programming, and binary exploitation

Microsoft July 2024 – Aug 2024

Discovery Intern *Redmond, Washington*

- Designed and implemented new web pages for ONNXRuntime website (250k monthly visits) using Svelte.JS, DaisyUI, and TailwindCSS to create responsive, scalable, and accessible pages.
- Collaborated with stakeholders throughout development to ensure a satisfactory final product.
- Engaged with employees at all levels and teams through workshops, coffee chats, and meetings to build professional skills.

FIRST Tech Challenge (FTC) Robotics - Hazen Scarabs — FTC 8693 May 2021 – June 2024

Team Captain & Primary Programmer (April 2022 - June 2024) *Redmond, Washington*

- Led 15 students in annual robotics challenges, ensuring design, programming, and outreach deadlines were met, and implemented organizational standards through design and code reviews.
- Started 12 LEGO League and FTC teams for 200+ underserved students, personally mentoring 4 teams.
- Raised $75,000 by engaging local businesses and advocated to WA legislators to expand CTE funding.
- Qualified for WA State Championships 3x, winning control, design, and innovation awards.

Projects

Embedded Satellite System | *C, Python*

- Worked with a group of cybersecurity students to design a satellite encoding and decoding operation on an embedded system
- Designed a tree-based key system to decode an n-sized decoding range with a logarithmic number of keys
- Followed secure programming principles to prevent attacks and used those same principles to exploit others designs

Autonomous Path Follower | *Java, Python*

- Reworked an existing localizer library to better suit my needs and improve tracking accuracy on a different drivetrain
- Designed a path following system using cubic spline curves for precise robot control, speeding up autonomous route development by 30% and boosting scoring by 20%.

Other Projects : Enigma Machine Simulation (Java), Small Business Network (Cisco), LED Matrix Cloud Display (C)

Technical Skills

Languages: Python, Java, C, Learning C++ & Rust
Technologies: Pandas, OpenCV, Tensorflow, Selenium, JavaFX, Ghidra, GDB, Docker, Burp Suite
Concepts: Virtual Memory, Cache Memory, Encryption, Decryption, Defensive Programming, Embedded System Design

Awards & Honors

Spokane Cyber Cup CTF 1st Place, UW FearLess Tech More 2021 Winner, National Cyber Scholarship Finalist (2x), FTC Dean's List State Semifinalist (2x), 2nd Computer Applications (MS Office) @ WA FBLA States; 3rd Computer Problem Solving & 2nd Cybersecurity @ West FBLA Regionals