Ayden Carter

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Education

University of Washington — Seattle, WA
Bachelor of Science in Computer Science, Minor in Music, Dean's List 4 Quarters — *Aug. 2022 – Mar. 2026*

Tacoma Community College — Tacoma, WA
Associate of Arts, High Honors — *Sept. 2020 – June 2022*

Technical Skills

Languages: Java, Python, C/C++, C#, SQL, JavaScript, HTML/CSS, TypeScript
Frameworks: React, Node.js, JUnit, ultralytics, pyTorch, CVzone, llama3
Developer Tools: Git, Microsoft Azure, VS Code, IntelliJ, Jupyter
Libraries: jQuery, NumPy, Matplotlib, SQLite
Relevant Coursework: Data Structures & Algorithms, Systems Programming, Software Design & Implementation, Introduction to Data Management, Computer Security, Introduction to AI, Probability & Statistics

Experience

Allen Scholars Mentor — Aug. 2023 – Present
University of Washington — *Seattle, WA*

- Assisted student programming understanding in languages like **HTML, CSS, and JavaScript** by holding office hours and providing support in-class.
- **Collaborated regularly with a team** to plan activities, create a social media presence for the program, update administrative documents, and give feedback on potential endeavors.
- Provided direct support and mentorship through assisting with immersive 4-week summer bridge course, meeting 1:1 with students and **executing program events** throughout the year.
- Resource for a cohort of 60 students in the Allen Scholars program.

DubHacks Hackathon Participant — Oct. 2024
Major League Hacking — *Seattle, WA*

- Collaborated with a team of developers to design and **build a full-stack application** in a 24-hour hackathon.
- Led the **back-end development** while focusing on rapid prototyping, problem-solving, and teamwork.
- Presented the final project to judges and peers, receiving feedback on technical and user experience aspects.

Projects

Personal Website/Portfolio | *HTML, CSS, JavaScript* — Aug. 2024 - Present

- Developed a personal website showcasing projects, skills, and achievements in computer science.
- Implemented **responsive design** for desktop computers, tablets, and mobile devices.
- Used **JavaScript** to implement animations and website messaging system.
- Published on UW student server at students.washington.edu/aydenc16

VisAId: AI Environment Analysis | *Python, ultralytics, CVzone, llama3, PyTorch, pyttsx3* — Oct. 2024 - Present

- Developed a **real-time video application for object detection**, providing environment descriptions via **text-to-speech for the visually impaired**.
- Implemented **AI object detection** with Ultralytics, CVzone, and integrated LLaMA3 and PyTorch for **detailed environmental analysis**.
- Incorporated **text-to-speech functionality** using pyttsx3 to communicate real-time insights effectively to users.

Flight Itinerary Management Service | *Java, SQL, Microsoft Azure, Git* — Jan. 2024 – Mar. 2024

- Developed a terminal-based application that optimally creates, updates, and manages flight itineraries.
- Used Java libraries to ensure secure transaction and **prevent SQL injections**.
- Designed **database schema** for efficient storage and fast retrieval using optimized SQL queries.

Query Processor | *C, C++, HTML, CSS, POSIX* — Mar. 2024 – July 2024

- Developed a search engine using a **custom hashtable** for fast, efficient keyword indexing and retrieval.
- Designed and **implemented the core search algorithm in C/C++** to process large datasets and return results with low latency.
- Integrated **memory management techniques** to handle large-scale data efficiently and avoid memory leaks.