

Donovan Hsiao

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EDUCATION

University of Washington

Expected Graduation – June 2027

Bachelor of Science in Computer Science — GPA 3.9

Seattle, WA

- Discrete Math; Hardware/Software Interface; Data Structures and Parallelism; Statistics and Probability; Software Design and Implementation; Systems Programming; Program Management; Software Engineering; Computer Security

SKILLS

Languages: Python, C, Assembly, Java, HTML/CSS/SASS/JS, SQL TypeScript, C++, PHP

Frameworks and Technologies: Git, REST (Express.js, Flask, FastAPI), WebSocket (socket.io), Linux, PostgreSQL, ReactJS, Machine Learning (TensorFlow), Swing Builder GUI, Laravel

Developer Tools: Git, VS Code, IntelliJ, Eclipse, Vim, GDB

EXPERIENCE

Web Development Intern

June 2025 – September 2025

Vietnamese Innovation Club

Vancouver, WA

- Upgraded the organization's website from Laravel 8/PHP 7.3 to Laravel 12/PHP 8.2, future-proofing the codebase and reducing hosting costs by 15% due to GoDaddy's updated pricing model
- Refactored legacy controllers, routes, and Blade templates to comply with modern Laravel conventions, improving site performance and maintainability while preserving existing content and features
- Collaborated with VIC staff to test and deploy the modernized site, implementing version control with Git and a staging workflow that reduced deployment errors by 100% compared to previous manual uploads

Software Development Intern

September 2022 – January 2023

Clark College

Vancouver, WA

- Improved website accuracy and user trust by updating over 50+ college webpages with the latest institutional and student organization information using HTML, CSS, and content management systems (CMS)
- Enhanced the digital presence of campus organizations by developing and maintaining web pages featuring upcoming events, news, and media, improving student engagement by 20% based on web analytics
- Collaborated with staff to design and deploy new organization websites, streamlining onboarding for newly established clubs and ensuring consistent UI and accessibility standards across the college domain

Mathematics Tutor

June 2022 – September 2022

AIR MATH

Remote

- Delivered one-on-one virtual tutoring sessions via Zoom, helping students strengthen problem-solving skills and conceptual understanding in algebra, geometry, calculus, and statistics
- Designed and adapted lesson plans using visual explanations and step-by-step walkthroughs to clarify complex mathematical concepts, increasing student engagement and retention of key principles

PROJECTS

Ambira | *React, SQL, Firebase*

June 2025 – Present

- Developed Ambira, a full-stack social media platform enabling users to log, track, and share productivity sessions (e.g., studying, working, or completing personal tasks), fostering motivation and accountability
- Engineered user authentication and real-time database integration using Firebase and SQL, ensuring secure session storage and smooth synchronization across devices for 100+ test users
- Designed and implemented a responsive React front-end with dynamic dashboards and progress feeds, improving user engagement and session logging efficiency by 40% during prototype testing

Scan AI | *Python, TensorFlow*

April 2025 – June 2025

- Achieved 92% model accuracy in tumor classification by training a Convolutional Neural Network (CNN) in TensorFlow using a curated dataset of annotated CT images
- Streamlined image preprocessing and inference workflows in Python, enabling real-time prediction and visualization of tumor regions on uploaded scans