Lawrence Tan

contact@lawrencetan.ca | linkedin.com/in/lawta | lawrencetan.ca

EDUCATION

University of Washington, Seattle - *Bachelor of Science in Computer Science*

JUNIOR - EXPECTED GRADUATION JUNE 2025

3.86 GPA

EXPERIENCE

Amazon - *Software Dev Engineer Intern*

JUNE - SEPTEMBER 2023

- Built real-world software to support Amazon Alexa smart thermostat integrations and energy-saving incentive programs.

UW Paul G. Allen School of Computer Science and Engineering - *Teaching Assistant*

SEPTEMBER 2022 - PRESENT

- Selected through a competitive interview process to be a TA for UW's introductory computer science courses, which attract over 5,000 students each year.
- Responsible for teaching weekly quiz sections of 20 students and holding office hours to assist students with homework problems.

UW CSE Social Futures Lab - *Research Assistant*

SEPTEMBER 2022 - PRESENT

- Worked with faculty and PhD students to conduct human-computer interaction and social computing research.
- Analyzed data from 20+ user interviews to understand the needs and usage patterns of social media users on Facebook, Instagram, Mastodon, Reddit, TikTok, and Twitter.
- Developed **Python** scripts to analyze posts on the Mastodon network using **large-language model embeddings**, in preparation for a novel embeddings-based approach to feed curation.

Advanced Robotics at UW - *Computer Vision Software Lead*

SEPTEMBER 2021 - PRESENT

- Led the subteam responsible for the design and implementation of a **fully-autonomous robot navigation system**, including spatial mapping, path planning, localization with fiducial markers, and obstacle avoidance.
- Utilized type annotations, unit tests, and CI runners to ensure code quality and reliability.
- Collaborated across a 70-person software, mechanical, and electrical development team to plan quarterly goals and deadlines and implement features on our fleet of 7 robots.
- Champions of the DJI Robomaster 2021 and 2022 North America competitions, against 18 college teams from around the world.

PROJECTS

AutoNote - *UW CSE Entrepreneurship Course*

- Led a team of 15 computer science, business, and design experts to develop AutoNote, an AI-powered note taking app that analyzes what is being said around you to provide context-aware suggestions as you type.
- Developed a functional proof-of-concept using the **OpenAI API, Electron Forge, Node.js, C++, React.js**, and **Google Firebase**.
- Pitched our startup idea, including technology and go-to-market strategy, to venture capital investors from Pioneer Square Labs, Trilogy Equity Partners, Madrona Venture Group, and more.
- Personally featured in an UW CSE article for being selected as the best project of the course.

SKILLS

Full-Stack Development: HTML, CSS, JavaScript, React.js, Electron, Figma, Adobe Illustrator, Google Firebase

Programming Languages and Tools: Python, Java, C++, Linux, Docker, Git, GitHub Actions, OpenAI