

Alan Lai

(206)-446-7178 | alan.lai1738@gmail.com | <https://www.linkedin.com/in/alan-t-lai/> | <https://alan-lai1738.github.io/>

SKILLS

Programming Languages: Java, C++, Python, SQL, HTML

Technologies: Git, Linux, CSS, Embedded Systems, Microsoft Office, Node.JS, TDD, Express.JS

EDUCATION

Bachelor of Science in Computer Science and Software Engineering

Expected Autumn 2022

University of Washington Bothell | Bothell, WA

GPA: 3.68

Relevant Coursework: Data Structures, Algorithms and Discrete Mathematics, Software Engineering, Technical Writing, Analysis and Design, Database Systems, Artificial Intelligence

EXPERIENCE

Teaching Assistant/Peer Facilitator, University of Washington | Bothell, WA

2020 - Present

- Assisted teaching and peer reviewed for 50+ students in "CSS 143: Programming II" and over 300+ java projects a quarter.
- Coordinated weekly office hours on Discord to aid students in understanding assignments and guidelines for Java programs.
- Created Test Programs using JUnit to automatically grade student's Java Programs.

Undergraduate Research Assistant, Tech4Good | Bothell, WA

2021 – Present

- Created an online course that bridges the gap between UW Bothell's computer science curriculum and the skills required to interview for software engineering positions.
- The course is based on questions from Leetcode, each lesson describes how to approach, solve, optimize, and calculate space/time complexity for a problem. Languages: C++ and Java.

Officer at Association for Computing Machinery Club, UWB ACM | Bothell, WA

2021 - Present

- Helped organize 60+ CS events a year focused on sharpening technical skills and preparing students for the software engineering field.
- Promoted and collaborated on an annual hackathon, "UWB Hacks from Home."
- Worked with other officers to create over 10 problems for Technical Interview Preps.

SOFTWARE & DESIGN PROJECTS

Personal Website

- Programmed a personal website portfolio through HTML and JavaScript.
- Designed a fully functional website through CSS for a visually appealing interface.
- Collaborated with 4 team members to test performance, compatibility, and improve features of the website.

Python Nutrition AI Chat Bot

- Used Python to design an AI Chat Bot that specializes in constructive nutritional advice.
- Worked in a team of two to construct 100+ responses to user inputs.

Jolly-Banker

- Programmed a bank management system which can take transactions, create accounts, manage index funds, and manage joints through C++.
- Designed all classes through UML diagrams and implemented on Visual Studio Code.
- Used object-oriented programming skills and core data structures skills.

Movie Store Object

- Used C++ to create a Movie Store Inventory program.
- Uses binary search trees to store movies based on genres, and made a Hash-Map to store customer ID's with their information.
- Program is able to parse information of customers, transactions, and inventory for a Store based off text files.