

Alan Lai

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SKILLS

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

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

EXPERIENCE

Teaching Assistant/Peer Facilitator, University of Washington | Bothell, WA Dec 2020 to June 2021

- 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 June 2021 to 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, Association for Computing Machinery Club | Bothell, WA June 2021 to 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.

EDUCATION

Bachelor of Science in Computer Science and Software Engineering Expected Autumn 2022

University of Washington Bothell | Bothell, WA

GPA: 3.7

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

SOFTWARE & DESIGN PROJECTS

Personal Website – HTML/JavaScript/CSS Dec 2020 to Present

- 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.

Jolly-Banker – C++ Oct 2020 to Sep 2020

- 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 – C++ Feb 2021 to Mar 2021

- 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 IDs with their information.
- Program can parse information of customers, transactions, and inventory for a Store based off text files.