

Alan Lai

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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 January 2022

University of Washington Bothell | Bothell, WA

GPA: 3.64

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

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.

Banking the Unbanked Architecture

- Used Python to design a program to build a program that inputs the user bio-signature which includes fingerprint and facial recognition to generate a hash that acts as a bio-digital currency for the end user to facilitate all the banking services, starting with deposit and withdrawals using crypto.
- Worked in a team of four to complete program in 48 hours to be submitted to UW Blockchain Hacks May 2021 Hackathon, program won third place.

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.

Workout Regime

- Used Java to create a workout tracking application which can be updated daily.
- Used Object-oriented programming skills and UML diagrams.
- Worked collaboratively with 2 other members to improve and add more functionalities that can be used by people who workout.

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.

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.