Alex Lai

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SKILLS

Languages: Java, C++, C, Python, SQL, JavaScript, HTML/CSS
Tools and Software: Git, Linux, Visual Studio Code
Libraries/Frameworks: Node.js, React

EDUCATION

Bachelor of Science in Computer Science and Software Engineering Expected, December 2022
University of Washington Bothell | Bothell, WA

- GPA: 3.68, Dean's List Honors
- Extracurriculars: Chief Technology Officer for the Association for Computing Machinery Club at UW Bothell
- Relevant Coursework: Data Structures and Algorithms, Technical Writing, Software Engineering, Analysis and Design, Database Systems, Artificial Intelligence, Operating Systems, Intro to AI, Hardware and Computer Organization

WORK EXPERIENCE

Computer Science Tutor, University of Washington Quantitative Skills Center | Bothell, WA June 2021 – Present

- Lead 15-minute one on one tutoring sessions to help about 100 students a quarter develop computation and quantitative skills.
- Took advantage of constructive tutoring to empower students in programming, used feedback-based tutoring to analyze student's code when debugging.

Computer Science Teaching Assistant, University of Washington | Bothell, WA December 2020 – Present

- Graded about 45 students' Java projects to assist the professor with grading and provide feedback on programming assignments, grader for Java I and Java II. Graded C and Python Projects in AI and Operating Systems.
- Created a dozen JUnit code-testing programs to automatically grade student's Java Programs**.**

Undergraduate Research Assistant, Tech for Good | Bothell, WA Mar 2021 - Present

- Created an online course with 150+ users that connects UW Bothell's computer science curriculum and the skills required to interview for software engineering positions.
- Wrote detailed C++ solutions for answers to questions from LeetCode, each lesson describes how to approach, solve, optimize, and calculate space/time complexity for a problem.

PROJECTS

Personal Website, https://alex-t-l.github.io/alex/ November 2020 - Present

- Used **JavaScript, HTML, and CSS** to design a website that acts as my personal resume and biography.

Nutrition Chatbot, https://github.com/alex-t-l/Nutrition-Chatbot June 2021

- Used **Python** to design a chatbot that specializes in constructive nutritional advice.
- Worked in a team of two to construct 150+ potential responses to user input.

Movie Rental System, https://github.com/alex-t-l/Movies-Project March 2021

- Used **C++** to create a program that represents a Movies Rental Inventory System.
- Uses binary search trees to store information about movies and their genres.
- Program parses in information about inventory, customers, and transactions based of three text files.

Leet Programming, https://stepik.org/course/72339/info July 2021 - Present

- Prepared 5~ lessons a week in **C++** that breaks down a problem and provides multiple detailed solutions with emphasis on efficiency.

Inspirational Quote Generator, https://alex-t-l.github.io/Inspirational-Quote-Generator/ July 2021

- Used **JavaScript, HTML, and CSS** to design a website that generates inspirational quotes.
- Program fetches quotes from a URL using JSON, and randomly generates a random image, color, along with the random inspirational quote.