

Alex Lai

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SKILLS

Languages: Java, C++, C, Python, SQL, JavaScript, HTML/CSS

Tools and Software: AWS, Git, Linux, Visual Studio Code, MongoDB

Libraries/Frameworks: Node.js, React.js, Express.js

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, Cloud Computing, Database Systems, Artificial Intelligence, Operating Systems, Intro to AI, Hardware and Computer Organization

WORK EXPERIENCE

Software Engineer Intern, Lotus Project | Remote

July 2021 – September 2021

- Developed and maintained dashboard that displays main results from analytics team, worked on frontend (**JavaScript**) and backend (**Python**) to improve loading speeds of heatmap.
- Decide framework to integrate and display results using AWS
- Incorporate results of data analysis to JSON file format to visualize the results on a Google Maps platform.

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.
- Applied 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++**, **C** and **Python** Projects in AI, Operating Systems, and DS& Algos.
- 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, questions based on LeetCode.
- Wrote **C++** solutions, lessons contain solving, optimizing, and calculating 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.

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.
- Created the program from start to finish, shows backend and system design knowledge.

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.
- Fetches quotes from a URL using JSON, randomly generates a background image, colors, and quotes.

Posts, <https://github.com/alex-t-l/Posts>

Sep 2021

- Used **JavaScript**, **React**, **Node.js**, **Express**, & **MongoDB** to build a simple social media **full stack MERN application** that lets you post interesting media such as photos, videos, and text as a scrollable timeline. Created the project from start to finish, demonstrates full stack knowledge. Stores user's posts in a database using **MongoDB** in **NoSQL** format.