

# Alex Lai

[tutai0320@gmail.com](mailto:tutai0320@gmail.com) | [www.linkedin.com/in/alex-t-l](https://www.linkedin.com/in/alex-t-l) <https://github.com/alex-t-l>

---

## SKILLS

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

**Software:** Git, Linux, Visual Studio Code, Slack, Zoom, Docker

**Tools/Technologies:** AWS, Confluence, Kafka, Kubernetes, MongoDB, DynamoDB, ChatGPT, SwiftUI

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

## EDUCATION

**Bachelor of Science in Computer Science & Software Engineering**

09/2019 - 12/2022

University of Washington | Bothell, WA

- GPA: 3.46
- Extracurriculars: Chief Technology Officer for the Association for Computing Machinery Club at UW Bothell
- Relevant Coursework: Data Structures & Algorithms, Technical Writing, Software Engineering, Cloud Computing, Databases, Intro to AI, Operating Systems, Hardware & Computer Organization, Software Engineering Internship

## WORK EXPERIENCE

**Software Engineer Intern, Zillow | Seattle, WA**

05/2023 - Present

- Working in team of 4 in Illuminate iOS team to build a Clickstream Reporting tool in **Swift**, using **SwiftUI/UIKit** tech.
- Used **ChatGPT** to learn Swift/SwiftUI, UIKit, XC Testing, improved workflow speed by 10x.
- Implemented UI and example app for iOS Zillow Home Touring Note taking feature using **SwiftUI/UIKit**, followed Figma diagram specs.

**Software Engineer Intern, Zillow | Seattle, WA**

06/2022 - 09/2022

- Worked with a team of 6 in the Housing Trends Team, built a full stack project in **Python, Flask, React, JavaScript, CSS, & HTML**, to store Zillow's metric information to allow stakeholders to view and employees to update metric information in a **DynamoDB** database.
- Programmed backend part uses **Python**, and **DynamoDB** for the backend to store Zillow metrics in a database with the ability to CRUD operation using **AWS's** Boto3 interface to retrieve JSON format information.
- Designed frontend part uses **JavaScript, React, CSS, and HTML**. Used **Flask** to connect back and front end together.
- Made operations on Zillow's metrics 10x faster than before, instantly accessible, and updatable in a click of a button.

**Software Engineer Intern, Datadog | New York, NY**

01/2022 - 04/2022

- Updated Datadog's data routing layer to be less spammy, documentation for Metrics Timeseries team.
- Built a project on Datadog's auto-sharding system application that uses **Terraform** to make **GRPC** calls to manage Datadog's data infrastructure to Create/Read/Update/Delete data points. The **Terraform** provider for the project is written in **Golang**, it uses **AWS S3** to store **Terraform** state files, and stores managed data points in a **DynamoDB** table. Improved speed of modifying data points in Datadog's routing layer by 80% after setting up infrastructure.
- Delivered 4+ solutions a month in **Golang** for Datadog's routing/active-balancing layer sharding-system.
- Used **Confluence** to find documentation, **Jira** for Kanban board, **Slack** to find common code/errors, **Gitlab** to test.

**Computer Science Tutor, University of Washington Quantitative Skills Center | Bothell, WA**

06/2021 - 06/2022

- Lead 15-minute one on one tutoring sessions to help 100 students a quarter develop computation and quantitative skills. Applied constructive tutoring to empower students in programming, tutored in **Java, C++, C, and Python**.

## PROJECTS

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

09/2021

- 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 full product showing full stack knowledge. Stores user's posts in a database using **MongoDB** in **NoSQL** format.

**Inspirational Quote Generator, <https://alex-t-l.github.io/Inspirational-Quote-Generator/>**

06/2021

- Used **JavaScript, HTML, and CSS** to design a website that generates inspirational quotes.
- Created full product showing full stack knowledge. Stores user's posts in a database using **MongoDB** in **NoSQL** format.

**My City API, <https://github.com/alex-t-l/My-City-API>**

10/2021

- Used **Java** to create a client app that outputs information from weather and nearby Cities RESTFUL API.