Alex Lai

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SKILLS

Languages: Java, C++, C, Python, SQL, JavaScript, HTML/CSS, Golang
Software: Git, Linux, Visual Studio Code, Slack, Zoom, Docker
Tools/Technologies: AWS, Confluence, Kafka, Kubernetes, MongoDB
Libraries/Frameworks: Node.js, React.js, Express.js

EDUCATION

Master of Science in Computer Science & Software Engineering   Incoming, September 2022 – March 2024
University of Washington | Bothell, WA

Bachelor of Science in Computer Science & Software Engineering   Expected, June 2022
University of Washington | 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 & Algorithms, Technical Writing, Software Engineering, Cloud Computing, Databases, Intro to AI, Operating Systems, Hardware & Computer Organization, Software Engineering Internship

WORK EXPERIENCE

Incoming Software Engineer Intern (Summer 2022), Zillow | Seattle, WA   June 2022 – September 2022
- Incoming Intern for Summer 2022 (June - September), Market Analytics Engineering Team

Software Engineer Intern, Datadog | New York, NY   January 2022 – April 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 is **Golang**, it uses **AWS S3** to store **Terraform** state files, and stores managed data points in a **DynamoDB** table. Improved speed of creating 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.

Software Engineer Intern, Lotus Project | Remote   July 2021 - September 2021
- Worked on the Google Maps API Team to develop and maintain a dashboard that displays main results from analytics team, worked on **JavaScript** backend to fix zoom function of heatmap.
- Decided framework to integrate and display results using **AWS**.
- Incorporate results of data analysis to **JSON** file format to visualize 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 100 students a quarter develop computation and quantitative skills. Applied constructive tutoring to empower students in programming, tutored in **Java, C++, C, and Python**.

Undergraduate Research Assistant, University of Washington | Bothell, WA   March 2021 – September 2021
- Created a LeetCode technical interview prep course on Stepik platform with 150+ users that helps students get a job.
- 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.

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.

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

My City API, https://github.com/alex-t-l/My-City-API   October 2021
- Used **Java** to create a client app that outputs information from weather and nearby Cities RESTFUL API.