Alex Lai

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Education

Bachelor of Science in Computer Science & Software Engineering   **09/2019 - 12/2022**
University of Washington (UW) | **Bothell, WA**

- 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**

- Collaborated with a team of 4 in Illuminate iOS team to build a Clickstream Reporting tool in Swift, using SwiftUI/UIKit tech.

- Utilized ChatGPT to accelerate learning of Swift/SwiftUI, UIKit, XC Testing, resulting in a 10x improvement in workflow speed.

- Designed UI and example app for Zillow Home Tour Notes feature using SwiftUI/UIKit, aligning with Figma diagram specs. Integrated GraphQL data into the iOS Notes SDK in collaboration with the TEM team.

- Delivered a working prototype for both products three weeks ahead of the project end.

Software Engineer Intern, Zillow | Seattle, WA   **06/2022 - 09/2022**

- Collaborated w/a team of 6 in the Housing Trends Team to build a full stack project in Python, Flask, React, JS, CSS, & HTML.

- Programmed the backend using Python & DynamoDB to enable CRUD operations using Boto3 interface to retrieve JSONs.

- Designed frontend using JavaScript, React, CSS, and HTML. Utilized Flask to bind back & front end seamlessly.

- Optimized operations on Zillow's metrics, making them 10x faster, instantly accessible, and updatable with a simple click.

Software Engineer Intern, Datadog | New York, NY   **01/2022 - 04/2022**

- Revamped Datadog's data routing layer to enhance efficiency and documentation for the Metrics Timeseries team.

- Developed a project on Datadog's auto-sharding system application using Terraform to manage data infrastructure with GRPC.

- Utilized Golang based Terraform provider, & S3 to store Terraform state files and managed data points in a DynamoDB table to achieve an 80% improvement in speed for modifying data points in Datadog's routing layer.

- Consistently delivered 4+ solutions a month in Golang for Datadog's routing/active-balancing layer sharding-system.

Software Engineer Intern, Lotus Project | Remote   **06/2021 - 09/2021**

- Developed and maintained a dashboard that displays main results from the analytics team, focusing on backend (JavaScript)

- Chose a framework to integrate and display results using AWS.

- Incorporated results of data analysis into JSON file format to visualize the results on a Google Maps API platform.

Skills

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

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

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

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