

# Andy Li

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## Education

### University of Waterloo

September 2020 - April 2025

Bachelor of Computer Science - 3.99 Cumulative GPA (94%)

## Skills

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

**Tools:** React, Node, AWS, PostgreSQL, MySQL, MongoDB, Hadoop, Spark, OpenGL, Docker, SonarQube, Linux, Jira, Jenkins, Mode

## Work Experience

### Tesla

September 2024 - Present

Software Engineering Intern - Firmware Build

### Amazon

May 2024 - August 2024

Software Development Engineer

- Supported deletion of over 50% of **Alexa** user data from short term memory to enhance privacy by onboarding a new deletion promise, ingesting requests through an **AWS SQS queue**, and creating a **Java** based deletion service hosted on an **AWS Lambda**.
- Authored an in-depth design document in **Quip** for an end-to-end automated testing solution for data deletion, refining it through iterative feedback and securing approval across multiple teams.
- Achieved 100% test coverage for the deletion service code by deploying test stacks using **AWS Cloud Formation**, running integration tests on **AWS Fargate**, and monitoring performance and alarms through **AWS CloudWatch**.

### Faire

September 2023 - December 2023

Frontend Engineer

- Measured company wide design time saved by tracking all usages of **Slate (design system)** components through the **Figma API**, querying a **Snowflake SQL** database to calculate hours saved, and generating statistical charts through **Mode Analytics**.
- Increased Slate component adoption by 50% through upgrading the Slate Assist **Figma plugin** with **React Hooks** to asynchronously fetch the latest component library data and to analyze Figma files for Slate component usage.
- Integrated the ability to create, edit, and view custom experiments on the **Experiment Labs** software using **React** and **TypeScript**, allowing developers to more accurately simulate product deployment to the market and gather performance metrics.

### Index Exchange

September 2022 - December 2022

Software Engineer

- Introduced an additional targeting option for deals on the exchange using **Golang** by adding a custom field to two **REST API** routes, whose data is persisted in a **MySQL** database.
- Increased test coverage to 100% for all new code through writing hundreds of unit and integration tests in **Golang**, sending mock API requests through a **Swagger UI**, and debugging **Docker** container logs.
- Deployed changes to production using **Kubernetes** pods in **ArgoCD** and monitored impact through **Grafana** dashboards.
- Decreased code quality errors by 30% through adding **SonarQube** configurations and fixing **Gitlab CI/CD pipeline** defects.

### OpenText

January 2022 - April 2022

Software Developer

- Reduced size of device data files by 50% through implementing efficient device emulation filters in the AppWorks project.
- Increased customer satisfaction with the **OpenText TeamSite** product by implementing significant UI changes through the Customer Improvements project, using **Angular**, **jQuery**, and **JSP**.
- Improved code quality of 5 different TeamSite versions, each containing millions of files, through performing routine bug fixes and testing software changes on each version with **VMware** virtual machines.

### Mentum Group Inc.

May 2021 - August 2021

Software Engineer

- Increased revenue for over 100 restaurants by developing a delivery feature using **React Hooks** and **Redux** that implements a restaurant location picker with **Apple MapKit** and calculates tips, taxes, and delivery fees.
- Implemented backend services used by hundreds of thousands of customers for food delivery services like Uber and SkipTheDishes, by creating **gRPC protobuf** API endpoints and transforming external data to user-friendly formats using **Golang**.
- Maintained 100% customer data accuracy by managing and updating a 1 million line database using **PostgreSQL CLI**.