

# Zach (Zuqi) Li

Software Engineer | University of Waterloo

## EXPERIENCE

### Apple | Senior Software Engineer

Nov 2021 - Present | Seattle, WA

Rust, Java, Cassandra, Kubernetes, Docker, Oracle DB, Trino, Pkl



- Building the next generation of the **App Processing** infrastructure, to safely and efficiently deliver apps from developers to **millions** of users
- Designed distributed systems and data models to **dissect, scan, extract, and serve** app data swiftly and reliably; backing the App Store's crucial internet-scale operations

### Microsoft | Software Engineer II

Sept 2018 - Oct 2021 | Redmond, WA (Intern @ Sept 2017 - Dec 2017)

C#, Python, Scala, Spark, Azure, ML.NET, TensorFlow, Databricks, TypeScript



- Architected and led the development of **Shopping Newsletters**, the system that brought personalized products to **millions** of shoppers weekly
- Built the **Unified Shopping Recommendations** service, providing a consistent personalized experience across Microsoft platforms, from Windows to Bing to MSN
- Developed **Bing for Commerce** to bring intelligent autosuggest for clients' private datasets
- Developed **language models** for **next word prediction** and **classifiers** for defective suggestions; increased autosuggest coverage by **~20%** and greatly reduced defect-rate

### LinkedIn | Data Infrastructure Intern

Jan 2017 - Apr 2017 | Sunnyvale, CA

Java, Kafka, MySQL, Ambry



- Helped launch LinkedIn's **media infrastructure** for processing and serving all digital assets
- Designed and delivered a distributed **end-to-end validation/performance testing** platform
  - Supports traffic generation, metrics collection, data validation, scheduling, and alerting
  - Used for experimentation, failure monitoring, and automating customizable E2E tests

### Yahoo! | Software Engineering Intern

May 2016 - Aug 2016 | Sunnyvale, CA

Node.js, React, Fluxible, MySQL, AWS, Chai, Mocha



- Created **Yahoo! View** as part of the web team; hosted **thousands** of TV shows and movies
- Built interactive components and added search functionalities using **AWS CloudSearch**
- Integrated **Tumblr** content into Yahoo! View to show relevant official and fan posts

## PROJECTS

Guest Lecturing | University of Toronto | Ranking Models, Feature Engineering

April 2024

Guest Lectured **INF482 - Information Studies II: AI**; discussed applications of machine learned rankers; training, deploying, and testing in production; career development in AI

**KaeSwap** | Website | Next.js, Apollo GQL, Flask, Postgres, AWS S3, Docker

Dec 2018 - Jan 2021

A platform for fans to trade and resale their albums/posters/merch; received **thousands** of page views and **hundreds** of concurrent active users during the KCON LA event

**LUQL** | iOS App | Node.js, React Native, MobX, Firebase

Jan 2017 - Sept 2017

A mobile platform for locals and tourists to post, discover, and book tours around their area

zuqili.com

lizuqiliang@gmail.com

github.com/zuqini

linkedin.com/in/zuqili

## Languages

- Rust
- Java
- Python
- C#
- C++
- JavaScript
- SQL
- Scala
- HTML + CSS

## Frameworks

### Web

- React + Next.js
- Apollo GraphQL
- Express
- Flask
- Redux

### Data

- Spark
- Trino
- ML.NET
- Hadoop

### Application

- Android SDK
- .NET
- Unity
- Unreal Engine
- OpenGL

## Databases

- Cassandra
- PostgreSQL
- MySQL
- Oracle
- MongoDB

## Tools

- Node.js
- Docker
- Kubernetes
- AWS
- Microsoft Azure
- Firebase
- Git + SVN
- Jupyter
- Vim

## University of Waterloo

Bachelor of Software Engineering  
Honours with Distinction

Sept 2013 - Apr 2018