

# Zach (Zuqi) Li

Software Engineer | University of Waterloo

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## EXPERIENCE

### Apple | Senior Software Engineer

Nov 2021 - Present | Seattle, WA

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



- Building the next generation of the **App Processing** infrastructure, to safely and efficiently deliver apps from developers to **millions** of users
- Designed and developed web-scale distributed services to process, store, and vend app data swiftly and reliably; serving crucial data to support the **App Store's** daily 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



- Led the **Shopping Newsletters** project to bring personalized recommendations to **millions**
- Built the **Shopping Recommendations** service powering all product recs on msft platforms
- Developed **Bing for Commerce** to support intelligent autosuggest for retailers and **D365**
- 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
- Implemented search functionalities into Yahoo! View using **AWS CloudSearch**, built interactive components and business logic, and set-up automated integration + unit tests
- Integrated **Tumblr** content into Yahoo! View to show relevant official and fan posts

## PROJECTS

**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 pageviews 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

**MelonWatch** | OpenGL Game | C++, OpenGL, OpenAL

Aug 2017

A 3D first-person shooter built completely from scratch featuring dynamic shadow mapping, particle system, and physics engine

## SKILLS

### 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
- MongoDB

### Tools

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

## EDUCATION

### University of Waterloo

Bachelor of Software Engineering

Sept 2013 - Apr 2018