

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 distribute apps from developers to the App Store for **millions** of users and their devices
- Architected 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
 - Worked closely with stakeholders and clients across the org to ensure successful launch

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 development of **Shopping Newsletters**, the system that brought personalized products to **millions** of shoppers weekly via email
- Built the **Unified Shopping Recommender** service, providing a consistent personalized shopping UX across offerings — from within Windows, to the Edge browser, to Bing & MSN
- Developed **Bing for Commerce** to bring intelligent autosuggest for clients' private datasets
- Shipped core **Bing Autosuggest** ML models: **language models** powering **next word prediction** boosting coverage by **>20%**, **defect classifiers** cutting bad suggestions by **>15%** without compromising core metrics, and various rankers incorporating new signals and data

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 & built the infra's distributed **end-to-end validation/performance testing** platform
 - Runs experiments, monitors failures, reports/validates metrics for all media infra teams

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

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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