Zach (Zuqi) Li

Software Engineer | University of Waterloo

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EXPERIENCE

Microsoft | Software Engineer II @Shop|Autosuggest Relevance Sept 2018 - Present | Redmond, WA (Intern @ Sept 2017 - Dec 2017) C#, Python, Scala, Spark, Azure, ML.NET, TensorFlow, Databricks, TypeScript



- Lead the **Shopping Newsletter** development and architected the entire pipeline for personalized emails; targets millions of shoppers weekly and greatly improves engagement
- Created the core **Shopping Recommendations** service and built the **infinite feed** workflow, enabling hundreds of personalized offers from multiple sources to all Microsoft apps
- Developed on <u>Bing for Commerce</u> to power intelligent autosuggest for retailers and <u>D365</u>
- Designed classifier to identify and suppress irrelevant Bing suggestions given context;
 achieved an F1-score of 0.91 and significantly reduced defect-rate
- Engineered service for providing non-prefix-match suggestions to en-US and international markets; expanded autosuggest coverage and serves ~1,600 QPS per instance
- Developed server-side autosuggest ranker for the Chromium Edge browser using regression trees; side-by-side metrics showed comparable performance to Chrome
- Prototyped and productionized n-gram/RNN language models for next word prediction; increased autosuggest coverage by ~20% and improved user engagement

LinkedIn | Data Infrastructure Intern @Media Infrastructure 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 @Yahoo! View 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 functional/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

<u>LUQL</u> | 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

- Python
- Java
- C#
- C++
- . .
- JavaScript
- SQL
- Scala
- HTML / CSS

Frameworks

- Web
- React
- Apollo GraphQL
- Express
- Flask
- Redux
- MobX
- Angular
- Data
- Spark
- ML.NET
- TensorFlow
- Hadoop
- Application
- React Native
- Unity
- Android SDK
- .NET
- OpenGL

Databases

- PostgreSQL
- MySQL
- MongoDB

Tools

- Node.is
- AWS
- · Microsoft Azure
- Firebase
- Docker
- Git / SVN
- Jupyter
- <u>Vim</u>

EDUCATION

University of Waterloo Bachelor of Software Engineering

Sept 2013 - Apr 2018