Zach (Zuqi) Li

Software Engineer | University of Waterloo

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EXPERIENCE

Microsoft | Software Engineer

Sept 2018 - Present (Prev. Sept 2017 - Dec 2017) | Redmond, WA C#. Python, TypeScript, TensorFlow, MS Azure, ML.NET, LINQ



- Designed, trained, and integrated a new autosuggest ranker into the Chromium-based Edge browser; metrics show parity against Chrome autosuggest
- Built and deployed an Azure microservice for serving non-prefix-match autosuggestions; handles 2,500~ QPS per instance and has a 99.9th percentile latency of 15~ ms
- Built an n-gram and a recurrent neural network language model to predict the next words
 of incomplete user queries
 - Integrated next word prediction into Bing's autosuggest pipeline to show relevant suggestions for uncommon queries; improved overall suggestion coverage by 23%
- Helped tune and improve the autosuggest relevance of Windows Search Box, Edge, and Bing.com through analyzing user patterns and experimentation

LinkedIn | Data Infrastructure Intern

Jan 2017 - Apr 2017 | Sunnyvale, CA Java 8, Kafka, MySQL, Ambry



- · Helped launch LinkedIn's media infrastructure for processing and serving media assets
- Designed, built, and released a distributed end-to-end validation and performance testing framework for the media processing infrastructure:
 - Handles traffic generation, pipeline monitoring, metrics collection, and data validation
 - Used by media teams for experimentation, analyzing metrics, and failure monitoring

Yahoo! | Software Engineering Intern

May 2016 - Aug 2016 | Sunnyvale, CA Node.js, React, Fluxible, MySQL, AWS



- Created and launched Yahoo! View (view.yahoo.com) as part of the web team; served thousands of TV shows and movies
- Built core React components, backend APIs, and integrated **Tumblr** content into Yahoo! View to show relevant official and fan posts
- Setup the entire backend integration testing infrastructure for Yahoo! View

PROJECTS

KaeSwap | Node.js, React, Redux, Firebase

Dec 2018 - Present

A platform for K-Pop enthusiasts to trade and resale albums and merch; had **thousands** of page views and **hundreds** of active users at KCON LA '19 during peak traffic

K-Pop Discord Utility Bots | Node.js, Firebase, Discord API

Aug 2018 - Present

Discord chatbots that: sort media into respective channels; store GIFs into DB for reactions; and report daily K-Pop news scraped from various sites. Used by **multiple K-Pop servers**.

LUQL | 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 | C++, OpenGL, OpenAL

Aug 2017

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

SKILLS

Languages

- JavaScript
- Python
- Java
- C#
- Scala
- C++
- C
- GraphQL
- HTML / CSS
- ARM Assembly

Frameworks

- TensorFlow
- · React / React Native
- Redux
- MobX
- Angular
- Express
- Less / Sass
- OpenGL
- Android SDK

Databases

- MySQL
- PostgreSQL
- MongoDB

Tools

- Spark
- Hadoop
- AWS
- · Microsoft Azure
- Node.js
- Docker
- Git
- Firebase
- Jupyter Notebook

EDUCATION

University of Waterloo Bachelor of Software Engineering Sept. 2013 – April. 2018

INTERESTS

- Build apps
- · Create music
- Catch pokémon