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



- Developed and supported Microsoft Bing for Commerce services/pipelines to power intelligent autosuggest for various retailer clients and **Dynamics 365 Commerce**
- Created the unified **Shopping Recommendations** service to support personalized product recommendations on all user-facing apps such as Windows, Bing, Edge, and MSN
- Designed classifier to identify and suppress irrelevant Bing suggestions given context; achieved an F1-score of 0.91 and significantly reduced defect-rate
- Delivered 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 deployed a distributed end-to-end validation/performance testing service
 - 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 <u>Yahoo! View</u> 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 - Present

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

HoppyPup | Unity Game | Unity, C#

Oct 2020 - Present

A 2D mobile game featuring custom assets, dynamic shadows, and day-night system

LUOL | 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
- Vim

EDUCATION

University of Waterloo

Bachelor of Software Engineering Sept 2013 - Apr 2018