Zach (Zuqi) Li

4A Software Engineering | University of Waterloo

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EXPERIENCE

Data Infrastructure Intern | LinkedIn
Winter 2017 | Sunnyvale, CA
Java 8, Kafka, MySQL, Ambry

- Worked on and helped launch Vector - the **media processing** infrastructure for processing, managing, and serving digital media assets
- Independently designed, built, and released VectorValidation - a distributed **end-to-end validation** and **performance testing** framework for media processing
- VectorValidation generates traffic to the media infrastructure, monitors the pipeline, produces quality and latency metrics, and validates the processed data
- VectorValidation is currently in use by multiple media teams for performing experiments, collecting key metrics, and monitoring for failures

Software Engineering Intern | Yahoo!
Spring 2016 | Sunnyvale, CA
Node.js, React, Fluxible, MySQL, ES6, Perl, AWS

- Created and launched **Yahoo! View** *(view.yahoo.com)* within 7 weeks as part of the web team; implemented various core business logic and UI components
- Optimized API endpoints and integrated AWS CloudSearch for improved performance; reduced avg response time to under **200ms** and increased max QPS capacity by **30x**
- Integrated **Tumblr** with Yahoo! View to provide official and fan posts related to shows
- Setup the entire backend integration testing infrastructure for Yahoo! View

Mobile Developer | Rave Media (WeMesh)
Fall 2015 | Waterloo, ON
Android SDK, Retrofit, ExoPlayer

- Developed and launched the Android client with a team of 5 developers; over **100,000** installs on Google Play Store
- Implemented the capability to fetch and create nearby local groups for watching synchronized videos; implemented automatic and manual video quality selection
- Worked closely with the designer to build an **interactive** orientation carousel for improving the user onboarding experience

Web Developer | Martello Technologies
Winter 2015 | Ottawa, ON
Java Spring Framework, Hibernate ORM, PostgreSQL, JSP

- Implemented the capability to **monitor** and **report** SIP-based VoIP traffic; detects performance and availability issues in real time
- Designed and built a **stateless** account recovery system using HMAC

PROJECTS

LUQL | Node.js, React-Native, MobX, Firebase   January 2017 - Present
A platform to help locals create and guide tours for travellers, tourists, and adventurers

Angora | Node.js, Angular, MongoDB, Jade/Pug, Less   January 2016
A platform where users explore various hairstyles and review local hairstylists

Terre | C++, Cocos2d-X   February 2015
A physics simulation sandbox for building star systems with dynamic lighting effects

SKILLS

Languages
- JavaScript
- HTML / CSS
- Java
- C / C++
- Python
- Bash

Frameworks
- Node.js
- React / React Native
- Angular
- Express
- Mocha
- Fluxible
- MobX
- JQuery
- Kafka
- Less / Sass
- Android SDK
- Java Spring Framework

Databases
- MySQL
- PostgreSQL
- MongoDB

Tools
- Firebase
- Git
- SVN
- Maven
- Grunt
- Webpack
- Splunk

EDUCATION

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

INTERESTS
- Build apps
- Make music
- Catch pokémon