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, Espresso DB, Ambry Object Store

- Worked on Vector - the **distributed media processing** infrastructure for uploading, processing, managing, and serving multimedia content
- Designed, built, and internally released a distributed E2E **pipeline validation** and **performance testing** framework for media processing using Kafka and Ambry
- Framework generates traffic, analyzes processed media data against the input media data, produces real-time metrics, and validates the pipeline

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 content related to shows

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 automatic and manual video quality selection and improved user onboarding experience by implementing an interactive orientation carousel

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

Design Engineer | Nakina Systems
Spring 2014 | Ottawa, ON
J2EE, Python, Hibernate ORM, Oracle DB

- Delivered a SOAP-based web service for managing groups and users
- Built a **customizable** password policy system for pseudo-random password generation and strength validation

PROJECTS

Angora | Node.js, Angular, MongoDB, Jade/Pug, Less — January 2016
An online platform to help users explore hairstyles and review local hairstylists

Terre | C++, Cocos2d-X — February 2015
A cross-platform physics simulation of star systems with dynamic lighting effects

Simple.Click.Search. | Chrome Platform API — August 2014
A Chrome extension that allows users to search plain text with a simple click or highlight

SKILLS

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

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

Databases
- MySQL
- PostgreSQL
- MongoDB

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

EDUCATION

University of Waterloo
Bachelor of Software Engineering
Sept. 2013 – present

INTERESTS
- Build apps
- Make music
- Catch pokémon