

Raymond Zheng

UNIVERSITY OF WATERLOO – BACHELOR OF COMPUTER SCIENCE

3.4 GPA, Expected April 2020, 3rd Year

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Work Experience



AppDirect Backend Developer for Platform/Infrastructure Team – May 2017 to Aug 2017

- Developed and maintained a provisioner that efficiently allocates environments for AppDirect engineers to develop, test, and ship on. (*Skills used: Angular, AWS load balancers, various analytics*)
- Updated UI and implemented features from Kubernetes 1.5 to 1.7 update to allow better debugging, smoother and quicker updates. (*Kubernetes*)
- Created frontend/backend for Duct, a secrets and microservice configuration tool (platform team's open source project), MERN stack. (*React.js, Apollo, GraphQL*)
- Implemented Chatops for 5+ platform tools. This eliminates the need for admin UI dashboards, allowing platform admins to receive, review, and solve support tickets via Slack. (*Node.js, Slack WebAPI*)



Genesys Software Analyst - Sept 2016 to Dec 2016

- Automated monitoring of server health for platform and production servers. Directly fixed daily issues on 7 of these servers. (*Python, bash, Zabbix*)
- Used Docker to solve incompatibility issues for many scripts, reducing the need for 20+ versions of every script, to just one. (*Docker, Vagrant*)
- Used Selenium and Python to implement testing, logging, and analytics. (*Python, Selenium*)



MA+HNASIUM Math Instructor - Jan 2015 to Aug 2015

PIANO STUDIO – a Started local piano studio with 8 students - Jan 2015 to Aug 2015



JiaXun FeiHong Electrical Co. – QA Intern - June 2014 to July 2014 (*Java*)

Projects

Stylezure in Hack The North – September 2017

- Chatbot that identifies your events, scrapes the web for fashion guidelines, looks at you via your device's camera, and then gives you advice on what to wear via Amazon products.
- I worked on the Azure bot, text analytics, as well as the algorithm behind how the bot determines what clothes are good. (*Microsoft Azure Bot/Text Analytics/LUIS, IBM Watson Visual Recognition, Google Vision*)

Blip in PennApps XVI – September 2017

- Scrapes tweets from Twitter, and uses a soft hierarchical clustering model to find important localized news, notifying nearby app users of events such as floods, extreme weather alerts, car accidents, etc.
- Uses D3 map projections for data visualization. (*React frontend, SQL, Python/Flask*)

PiaNote in StartHacks – March 2016

- Web application that tracks a musician's sound in order to automatically display the correct sheet music in accordance to his location in the song. (*Angular, Javascript*)

Tetris Machine Learning in EngHack Winter 2017 – Jan 2016

- Uses a neural network to teach a computer how to play Tetris indefinitely. (*C++ training, Node demo*)

Education

Bachelors of Computer Science, Minors in Combinatorics & Optimization and Statistics.

Notable courses:

Current: Algorithms, Operating Systems, Numerical Computation, Graph Theory, Applied Probability

Past: OOP, Computational Logic; Data Structures /Management; Sequential Programs; Computer Organization and Design

Skills

Web: MEAN, React, Redux, Relay, Flask

General: C++, C

Database: MongoDB, SQL, Sequelize, GraphQL

DevOps: Kubernetes, Docker, Terraform, Vault

Data Science: MatLab, Python, Tensorflow, GCP

Mobile: React Native, Firebase

Scripting: Python, Bash