Delmar Zhao

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SKILLS

Languages: Python, Ruby, C, Java, Bash, Javascript, HTML, CSS

Tools and Frameworks: Git, SQL, Android Studio, Node, Express, Ruby on Rails, React, Linux

EDUCATION

University of Toronto

Toronto, Ontario

Bachelor of Science, Computer Science GPA: 3.94

Sep 2017 - Nov 2021

EXPERIENCE

Momentive (formerly SurveyMonkey)

Ottawa, ON

Software Engineer

2021

• Improved observability of Rails application by implementing Sentry logging, enabling automatic forwarding of log data to Splunk Cloud, and configuring automated Slack and PagerDuty alerts based on log events

Software Engineering Intern

2020

- Developed features for administrative interface using Ruby on Rails and HAML to automate and
 expedite common customer support requests, fulfilling the top five feature requests from the customer
 success team
- Implemented cron jobs to automatically delete data for GDPR compliance using Sidekiq workers
- ullet Optimized **ActiveRecord** ORM and **PostgreSQL** queries, improving runtime complexity.
- Used **RSpec** to write unit and integration tests, achieving over 95% code coverage on new features.

Fortran Traffic Systems Limited

Toronto, ON

Full Stack Developer Intern

2019

- Led development of cross-platform mobile app using **Dart** and **Flutter** to display live map navigation and real-time traffic signal phase and timing information to users, delivering the MVP within two months
- Implemented email and Google account based user authentication using Google **Firebase**, and allowed administrators to create priority accounts with additional privileges for transit and emergency vehicles
- Created **REST API** endpoints with **Nodejs** and **Express** for serving intersection geometry, signal phase, and timing information based on GPS protocol buffer stream
- Optimized REST API responses using gzip encoding, reducing mobile app data usage by 88% per nearby intersection

Projects

Sign Language Interpreter

2018

- Implemented sign language interpreter using Python, Flask, and the IBM Watson Machine Learning API
- Won 1st place at Hack the North 2018 for best use of the IBM Watson Machine Learning API

GameCentre 2018

- Designed mobile game hub with **Java** and **XML** using the **MVC** design pattern, to allow users to compare scores with others
- Built several mobile games for the hub in **Android Studio**, and used **JUnit** to automate testing for controller classes

VoiceKBM 2018

- Transcribed voice input using the Google Cloud Speech API and parsed them into for voice commands for disabled/impaired computer users
- Programmatically controlled the mouse and keyboard using the **Python** PyAutoGUI module, including support for mouse movement, single/double clicks, scrolling, typing phrases, and keyboard shortcuts

AWARDS

Koch Scholarship

Fred and Mary Koch Foundation

2018 - 2020

Awarded annually based on outstanding GPA, extracurricular activities, community service, and character