




Kate Kim

4A Computer Engineering

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Projects

TriPlanner

May 2019 – Present

- Creating a website that give recommendations according to their preferences and helps users to plan and record their trips with their friends easily
- Using Google Maps and Places APIs to get information about attractions, operation hours and transportation
- Gaining great user experience and user interface skills

Cloudeer

Jul 2018 – Sep 2018

- Built a management system for easier access and search with multiple cloud storages in a single application
- Experienced various Java UI frameworks and open-source APIs of Dropbox, Google Drive, and One Drive
- Enhanced high-level designing and project management skills

WATCard Simulation

Mar 2018 – Apr 2018

- Developed a simulation of a student card balance transaction system with administrator and worker job pattern
- Each entity such as a student, machine, or bank is represented as a thread, performing a random task at a random time
- Advanced knowledge on shared memory management, critical sections, and deadlock analysis

Experiences

Firmware Features Software Engineer

Jan 2019 – Apr 2019

Cisco Meraki

San Francisco, US

- Analyzed and tested network techniques for measuring capacity of the bottleneck link on WAN path and implemented a configurable daemon process based on these techniques in C++
- Fixed bugs on open-source libraries such as HPing3 and cURL
- Obtained better teamwork and thinking-outside-the-box skills

Web and Cloud Application Developer

Apr 2018 – Aug 2018

Autodesk Inc.

Montreal, CA

- Built a responsive and interactive web component that shows the history of user operations and performs some useful commands such as delete and rewind to a point in **TypeScript** with **React**
- Created data managing APIs using Autodesk infrastructure software in the cloud platform
- Developed unit-tests, smoke tests and integration tests using **Mocha**, **Chai**, **Enzyme**, and **Sinon**
- Became better in handling challenges and not being afraid of asking around

Firmware Software Engineer

Sep 2017 – Dec 2017

Ford Motor Company

Kanata, CA

- Designed and implemented location-based services for next generation of Ford navigation system
- Excellent serial programming experience with GPS to calculate precise location of a vehicle
- Developed prototype driver for **I²C bus** to obtain gyroscope and accelerometer data in C++
- Created unit-tests with **Google test** and **Google mocks** and experienced in test-driven development

QA Automation Developer

Jan 2017 – Apr 2017

IBM Canada Ltd.

Toronto, CA

- Created a 'Dashboard' which uses Jenkins API to get test results' information in JSON format and parses and inserts into the corresponding database using RESTful APIs in **Python**
- Became familiar to Jenkins, its plug-ins, and **Groovy script** for orienting **Jenkins** jobs
- Improved attention-to-detail skill to assure quality of the product and automation

Education

University of Waterloo

Sep 2015 – Present

- Concurrent and Parallel Programming, Distributed Systems, Computer Networks, Deep learning, and Database