Raymond Lam
3B Software Engineering

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Skills

Languages: C++, Swift, Python, Java, JavaScript/HTML/CSS, SQL
Technologies: MySQL, iOS, Kubernetes, Jenkins, SaltStack, Protobuf, Borg, Git

Experience

Addepar
Software Engineering Intern | DevOps

Apr. 2018 — Aug. 2018
Mountain View, CA

- Worked on internal Flask web server using Python, JavaScript, MySQL that allows developers to deploy pre-configured Kubernetes/AWS development environments to run and test services
- Created Jenkins pipeline scripts to build, configure, deploy and monitor services running in development Kubernetes namespaces and AWS EC2 instances
- Designed and implemented web service that creates privileged Kubernetes resources in development namespaces based on a whitelist of approved configurations
- Wrote Kubernetes YAML files to configure and deploy Java services in development namespaces

Google
Software Developer Intern | Content Ads Experiments

Sept. 2017 — Dec. 2017
Waterloo, ON

- Designed and implemented an event-driven data pipeline running on Borg that stores historical experiment data in the Colossus file system
- Proposed an experiment diversion point recommendation system based on GoogleSQL queries to the historical experiments dataset
- Implemented design and unit testing in C++11

Google
Software Developer Intern | Content Ads Experiments

Jan. 2017 – Apr. 2017
Waterloo, ON

- Redesigned a component of the A/B testing framework used to select experiments in the ads-serving infrastructure to reduce code complexity
- Implemented design and unit testing in C++11, and integration tests in Python

Osellus
Software Developer Intern | Mobile iOS

May 2016 – Aug. 2016
Toronto, ON

- Worked on iOS application using Swift that reinforces learning by presenting resources and administering quizzes (Application : ECHO Learning Reinforcement)
- Improved data retrieval speed by reducing HTTP requests by 80%
- Implemented full offline mode by locally writing and caching data
- Migrated and refactored Objective-C codebase to Swift

Projects

Tilt Tilt
C, Texas Instruments Launchpad, Orbit Booster Pack

- One-player game where the user tilts their device in the direction of arrows that appear on the LCD display

League Tracker
Android, Java, MongoDB, ExpressJS, Node.js

- Android application where users connect with other summoners to communicate in real-time and create champion drafts (Currently a work in progress)

Education

University of Waterloo
Candidate for Bachelor of Software Engineering (BSE)

Apr. 2020

Cumulative Average: 84.34%
GPA: 3.67