





Raymond Lam

4A Software Engineering

 raymondlam12

 raymondlam.xyz

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 raymond.lam@edu.uwaterloo.ca

Skills

Languages: C++, Python, Swift, Java, JavaScript/HTML/CSS, SQL

Technologies: MySQL, iOS, Kubernetes, Docker, Jenkins, jQuery, SaltStack, Protobuf, Borg, Git

Experience

LinkedIn

Jan. 2019 — Apr. 2019

Software Engineering Intern | Systems & Infrastructure (Dali)

Sunnyvale, CA

- Incoming intern

Addepar

May 2018 — Aug. 2018

Software Engineering Intern | DevOps/SRE

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 pipelines and Python scripts to build, configure and deploy services to testing Kubernetes namespaces and testing AWS EC2 instances
- Led engineering-wide initiative to migrate internal services running on AWS EC2 to Kubernetes by designing, implementing and documenting a tool to containerize and deploy Java services

Google

Sept. 2017 — Dec. 2017

Software Developer Intern | Content Ads Experiments

Waterloo, ON

- Designed and implemented an event-driven data pipeline running on Borg that stores historical experiment data in the Colossus distributed 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

Jan. 2017 – Apr. 2017

Software Developer Intern | Content Ads Experiments

Waterloo, ON

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

Osellus

May 2016 – Aug. 2016

Software Developer Intern | Mobile iOS

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

Projects

Wat's On Campus

Python, JavaScript, MySQL, Flask

- Website that allows Waterloo students to post and find events happening around campus

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

Education

University of Waterloo

Apr. 2020

Candidate for Bachelor of Software Engineering (BSE)

Cumulative Average: 83.96%

GPA: 3.64