



# Charmaine Wang

Systems Design Engineering

647-760-9601

charmainewangyy@gmail.com

charmainewang.ca

## EXPERTISE

### Development

HTML Python  
CSS C#  
JavaScript C++  
JQuery SQL

### Design

InVision User Stories  
Sketch Personas  
SolidWorks Branding  
Adobe Creative Suite Market Research

### Tools

Bootstrap Xcode  
JIRA AWS  
GitHub API.AI  
Robot Eclipse  
Framework

## EXPERIENCES

### Web Application Developer

Sun Life Financial

Fall '17

- Identity, branding and web design/development of the Innovation Program website, highlighting team projects and the working process to build a stronger, better connected team.
- Managed a team of 4 through agile work and delivered a completed internal website in the span of 2 weeks.
- Wire framed and prototyped new functionalities of the mySunLife mobile app using Sketch, Illustrator and InVision.

### Programmer Analyst

Telus Health

Winter '17

- Developed and compared micro-services running on different servers (Node.js, Tomcat, Pippo, Spring Boot) for optimum compatibility in pipeline.
- Created Docker images and containers to improve pipeline scalability and solve micro-service deployment issues.
- Performed database migration from Oracle to Amazon Aurora to have data stored in a cloud based database.

### Marketing Director

University of Waterloo

Present

- Rebranded Waterloo Engineering Hackathon and designed print media for 250 participants.
- Centralize advertising and create an effective advertising plan between events to increase student interaction.

## EDUCATION

### Systems Design Engineering

University of Waterloo

Expected graduation year: 2021

- Human Factors in Design (Ergonomic Studies), Data Structures and Algorithms (Python), Digital Design (Circuits), Digital Lab (SolidWorks)

## PROJECTS

### Safer Cyclist Jacket

- Designed and built an Arduino system to increase cyclist security through an LED turn signal, proximity detector, and automatic nightlight.

### ElectroGO

- Prototyped an electric vehicle companion app for Waterloo Engineering Competition.

### Balance Improvement Board

- Defined design process to create an adjustable exercising platform for quadriceps toning.

### Freelance

- Designed logos for Sun Life Innovation Lab and Horizon Sun Holdings Inc.
- Designed and produced 2 Snapchat geofilters, which are used daily by approximately 600+ high school students.

## INTERESTS

Bouldering Jazz  
Baking Photography  
Travelling Watercoloring  
Volunteering Videography