



# Charmaine Wang

Systems Design Engineering

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## EXPERTISE

### Design

InVision      User Stories  
Sketch      Personas  
SolidWorks      Branding  
Adobe Creative Suite      Prototyping

### Development

HTML      Python  
CSS      C#  
JavaScript      C++  
jQuery      SQL

### Tools

Bootstrap      Xcode  
JIRA      AWS  
GitHub      API.AI  
Robot Framework      Eclipse

## 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.
- Wireframed and prototyped new functionalities of the mySunLife iOS 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

Class of 2021

- Human Factors in Design (Ergonomic Studies), Data Structures and Algorithms, 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