

# Cherry Zhang

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## EDUCATION

### UNIVERSITY OF WATERLOO

CANDIDATE FOR BASC IN

MECHATRONICS ENGINEERING

Expected May 2018 | Waterloo, CA

Cum. Average: 91.2%

Engineering Dean's List (Ranked 4th in class of over 130)

## LINKS

Github:// [phantomkirby](#)

LinkedIn:// [cherryzhang1995](#)

Twitter:// [@phantomkirby](#)

Blog:// [blog.cherryzhang.net](#)

## SKILLS

### SOFTWARE/EMBEDDED

Proficient:

Java • Android • C++

Experienced:

Arduino • HTML • CSS • JavaScript

Familiar:

MATLAB • MySQL • VBA • Raspberry Pi

• Machine Learning

### COMPUTER AIDED DESIGN

AutoCAD

SOLIDWORKS

### LANGUAGES

Fluent in English

Intermediate in Japanese

Basic Chinese and French

### OTHER

Technical Writing

UI/UX Design

## SELECTED COURSES

### DATA STRUCTURES AND ALGORITHMS

Algorithmic Analysis, Lists, Queues, Trees, Hashing

### DIGITAL LOGIC & MICROPROCESSORS

PLC & FPGA programming, Assembly, Logic Gates

### MACHINE LEARNING (STANFORD ONLINE)

Currently working on

## WORK EXPERIENCE

### MICROSOFT SOFTWARE ENGINEERING INTERN

Expected May 2015 – August 2015 | Tokyo, JP

- Expected to develop and upgrade Office Lens for Windows

### MICROSOFT SOFTWARE ENGINEERING INTERN

November 2014 – December 2014 | Tokyo, JP

- Designed and Implemented various algorithms and data structures for generating suggested content/the recommender system
- Improved the UI and UX experience on the Android client application, creating custom gesture features, etc.
- Designed and implemented various experimental ideas for the Sway application

### IMAGGLE LEAD ANDROID DEVELOPER

August 2014 – October 2014 | Tokyo, JP

- Imaggie is a startup company that develops a specialized mobile e-commerce application for fashionable women in Tokyo
- Developed the Android version of the already existing iOS application, being the lead developer, and making core decisions for the design of the product
- Demonstrated leadership and co-operation between managing tasks for the UI/UX designer and the other Android developer at the start-up

## RESEARCH

### UNIVERSITY OF WATERLOO RESEARCH ASSISTANT

January 2014 – April 2014 | Waterloo, CA

- Developed a health application to help rehabilitate people with reading disorders by going through the entire software lifecycle independently and researched various academic literature on reading disorders and wrote a conference paper in the end
- Wrote all of the required software documentation about the application for various stakeholders (> 100 pages).
- Implemented, and debugged the entire application on Android, and tested side by side with a person with an actual reading disorder

## SIDE PROJECTS (FULL LIST ON MY WEBSITE)

- HTML Parser (created the parsing algorithm myself)
- Bluetooth System that Prevents Sexual Harassment (Top 5 in TechCrunch Hackathon)
- Multi-Platform Android Fitness Application (with ChromeCast, Mobile, and Wear) (finalists at JPHacks)
- Diagnostic/ Rehabilitative Android Health App for Feet Problems (using a sock with pressure sensors and accelerometers, and Pebble Watch as a notification receiver) (PennApps Hackathon)

## EXTRACURRICULARS

### ORCHESTRA

- Participated in numerous city and school orchestras since primary school
- Played 2nd violin and 1st violin for 5 years, and viola for 2 years

### UNIVERSITY LIFE WORKSHOP DIRECTOR

- This directorship will happen on Fall 2015
- Will organize workshops to help first year engineering students get accustomed to university life, and balancing their studies and internships with life

### ENGINEERING PEER TUTORING PROGRAM

- Initiated a peer tutor program so struggling engineering students can get help from fellow peers
- Leading the project, starting with the upcoming 2B term for the mechatronics class of 2018. Eventually, all engineering classes will hopefully have this program set up for their class.

## HOBBIES & INTERESTS

- Real-time strategy video games
- European History and philosophy
- Blogging
- Singing
- Documentaries
- Model Building (Gundams)
- Weight Training

## VOLUNTEERING

### HACKATHON/IDEATHON WORKSHOP MENTOR

Fall 2014 | DMTC & Microsoft

I was a mentor for two Japanese hackathons at a hackathon company, DMTC. I also was an ideathon mentor for a Japanese ideathon hosted by Microsoft Japan to help promote women in STEM fields.

- at DMTC, I was available 24/7 to help or teach any hackathon participants with the applications they are developing
- at DMTC, I set up a workshop to teach Android programming and git to hackathon participants who were not familiar with either technologies
- at Microsoft, I helped guide the participants to possible solutions and how to make optimized decision analyses to help solve pollution through data collection and the use of Cloud technology

### VIOLIN INSTRUCTOR FOR SMALL CHILDREN

Summer 2012 | STRUM (Students Teaching Refugees Universal Music)

STRUM is an official student-run organization founded by high school students

- Planned and Coordinated a schedule of music lessons
- Taught the class how to play the violin using creative and engaging teaching techniques
- Managed large groups of children effectively demonstrating leadership and assertiveness

### UW ENGINEERING EXPLORATIONS VOLUNTEER

Winter 2014 | University of Waterloo Engineering Faculty

UW Explorations is an event that helps expose teenagers to engineering

- Participated in various meetings to brainstorm fun, creative engineering activities for the event
- Designed the activities, and constructed the necessary materials for these activities
- Independently developed a software application that the teenagers used in one activity which taught them optimization skills (linear programming)

### VOLUNTEER FOR STARTUP THAT HELPS WOMEN IN JAPAN

Fall 2014 & Spring 2015 | MommyCare

Japanese women face a lot of pressure and discrimination in the work force, and many decide to become housewives due to this. MommyCare is a startup which aims to help working mothers by offering a cheap cleaning service for their homes so mothers have more time to do other things. Their current web application is called HouseCare.

- Fixed various bugs in the web application every weekend (Ruby on Rails, JS, HTML/CSS): [link](#)
- Inspected the quality of the cleaning of newly recruited cleaners, and helped clean the houses they were cleaning, giving them various tips to improve
- Managed the startup's blog and wrote blog posts

## AWARDS

- |      |   |
|------|---|
| 2014 | International Experience Award (academic excellence & international internship) |
| 2013 | President's Scholarship of Distinction (entrance average of > 95%)              |
| 2013 | Dr. B. Mabel Dunham Award (Highest Average in High School among Females)        |
| 2011 | Business/Entrepreneurship Award (for Computer Science Studies in High School)   |
| 2011 | Gold Medal in Waterloo Science and Engineering Fair for Biotechnology           |