

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](#)

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

SKILLS

SOFTWARE/EMBEDDED

Proficient:

Java • Android • C#

Experienced:

Arduino • HTML • CSS • JavaScript

• C++

Familiar:

MATLAB • SQLite • VBA • 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
- Anime
- 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

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|------|---|
| 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 |