□ (650) 250 - 9523 | I diana.chang@edu.uwaterloo.ca | # DChang87.github.io | □ DChang87 | □ chaochingchan

Technical Skills

Proficient Python, Java, C/C++, HTML/CSS, Android Studio, JavaScript, Racket **Familiar** Tensorflow, Google Apps Script, Firebase, ReactJS, jQuery, Git

Work Experience _

Google Engineering Practicum Intern (Code Jam Team)

Mountain View, California May - Aug 2017

- · Built a Tensorflow model that succeeded in finding more cheating submissions than the existing cheating detection system
- Improved how data is stored and displayed in the cheating detection pipeline (**Flume**-based distributed system) with **C++** and **Python**
- · Wrote Python scripts to automate laborious and repetitive tasks previously done by the human judges while reviewing submissions
- Worked with **Google Apps Scripts** and the CodeJam Programs team to automate parts of the T-shirt prize distribution process
- Wrote a Shell script that backed up all 26 contestant's files over SSH every 20-40 minutes at Code Jam World Finals
- · Authored and prepared one of the problems best received by the participants in the Code Jam Kickstart Recruiting Contest

Brave Control Solutions Student Developer Intern (2 Internships)

Windsor, Ontario Aug 2015 & July 2016

- · Assisted in creating the first and efficient routing algorithm in JavaScript for an automated parking garage project
- Containerized some of the micro-services in the garage project with Docker

Education ___

University of Waterloo

2016 - 2021

- Honours Bachelors of Computer Science 85.46% Cumulative Average
- Elementary Algorithm Design and Data Abstraction, Designing Functional Programs, Introduction to Combinatorics

Projects _____

EmergiCare Hack the North 2016

- Won "Best use of Canadian Open Data", awarded by Canadian Open Data Exchange
- Built an Android Service that fetches and texts a 911 emergency service with the location of the caller as a 911 call is initiated

LIBestimote HackWestern 2

- · Android application that utilizes Estimote beacons to improve the check-out process and navigation at libraries
- Integrated the Estimote SDK with the Android application to detect the location of the user

Snatch n Go MHacks: Refactor

· Android application that allows students to pre-order from restaurants, with a web interface for restaurant owners

SmartMeds Hack the North 2015

• Android, Pebble & web project with Firebase that updates a patient's prescription in real time and reminds them to take their medicine

Leadership Activities

Hack the North Logistics Coordinator

Waterloo, Ontario Feb 2017 - PRESENT

- Led the Logistics team for two weeks when the team lead was unavailable to do so, coordinating all Logistics tasks during this time
- · Leading a team of 5 to ensure the smooth and seamless check in of over 1000 hackers from around the world
- $\bullet \ \ \text{Spearheading effort to acquire any hardware resources necessary for hackers to succeed at the event}$
- · Working with peers and vendors alike to deliver custom-built swag in a reliable and timely manner

MasseyHacks I & II DIRECTOR

Windsor, Ontario Dec 2015 - May 2016

- Led a team of 14 students to coordinate Canada's first Major League Hacking high school hackathon
- Brought together over 200 high school students across Ontario and Michigan for a 30-hour event
- Reached out to various local and international companies and raised over \$13,000 in sponsorship

Hour of Code Assistant/Organizer

Windsor, Ontario & Taipei, Taiwan Sep 2014 - Aug 2016

- · Assisted in organizing and executing various Hour of Code events at Vincent Massey Secondary School and in Taipei
- $\bullet \ \ \, \text{Taught the fundamentals of programming to children of ages 8 to 14 through games to spark interest in computer science}$

Awards .

2016 **CIBC National Scholarship** Largest of 11 national scholarships for exceptional first year students at UWaterloo 2016 **USA Computing Olympiad** Platinum Division (Highest Division)

2016 Canadian Mathematical Olympiad (CMO) Qualifying Repêchage Invitation-only qualifier contest for the CMO

2015 & 2016 American Invitational Mathematics Examination Invitation-only qualifier contest for the USA Math Olympiad