

SHIRLEY MIAO

EDUCATION

University of Western Ontario | Sept 2013 – Jan 2018 (*expected*), 4.0 GPA

- *Degree:* Honors B.Sc. Computer Science
- *President's Entrance Scholarship:* Full scholarship towards undergraduate degree

WORK EXPERIENCE

Software Engineering Intern, Google, Mountain View, CA | Summer 2015 (*expected*)

- Improving rendering efficiency of mobile web apps on the Sales Platform team, Ads

Software Developer, InkChat, University of Western Ontario | Summer 2014

- Developed a collaborative handwriting web application that allows for real-time digital ink streaming and math text input. Visit at <http://inkchat.org/>.
- Implemented algorithms for erasing and encoding ink traces as InkML (W3C standard)
- Integrated Fabric.js, MathQuill, and MathJax libraries for user input

Software Development Intern, Sunnybrook Research Institute | Summer 2013

- Wrote a MATLAB program to model wave propagation in body tissues using 3D arrays
- Created a GUI to visualize 3D tissue regions as consecutive 2D planes

Data Analysis Intern, Sunnybrook Research Institute | Summer 2012

- Developed a MATLAB GUI for researchers to extract data from microscopy images
- Manipulated image data to quantify pixel qualities in user-defined regions

EXTRACURRICULARS / PROJECTS

Organizer/Sponsorships Lead, Hack Western 2015 | September 2014 – March 2015

- Organized the first large-scale, 300-person hackathon at UWO
- Procured over \$55,000 in sponsorships from partner organizations and companies

JogWith.Me, UofTHacks 2015 Project | January 2015

- Built an Android/Pebble app that matches two runners anywhere in the world, providing each with real-time Google Fit run statistics as they virtually run together

IHateSnow, MHacks IV Project | September 2014

- Built an Android app that maps and describes the shortest path from one building on campus to another using Dijkstra's algorithm, prioritizing indoor tunnel routes

Founder/Undergrad Chair, Women in Technology Society | May 2014 - current

- Launched a faculty-supported group that promotes female students in technical fields through workshops, socials, and industry guests

Filte(RED), Square College Code Camp Hackathon for (RED) | August 2014

- Created the winning web app at a 12-hour hackathon held to raise awareness for (RED)
- Used Fabric.js/Codebird.js libraries to edit uploaded photos and export to Twitter

SKILLS

- **Languages:** Java, JavaScript, C, HTML/CSS, MATLAB, Python
- **Libraries/Frameworks:** Android, jQuery, Pebble, Node.js, Parse, Cordova/PhoneGap

AWARDS

Google Grace Hopper Celebration Scholarship Recipient | August 2014

- Selected to receive an international merit-based award towards the full costs of attending the 2014 Grace Hopper Celebration for Women in Computing

Square College Code Camp Participant | July 2014

- Selected as one of twenty female Computer Science students from across North America to attend an immersive code camp hosted by Square, Inc.