

# Ryan Li

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## EDUCATION

**U**niversity of Waterloo (Expected year of graduation: 2023)  
Bachelor of Applied Science  
Major: Nanotechnology Engineering

## PROFESSIONAL EXPERIENCE

### Microfabrication Lead and Technical Team Member

*Sept 2018—Present*

#### University of Waterloo NanoRobotics Group (UWNRG)

*Waterloo, ON, CA*

- Worked on the Solenoid Actuated MicroRobot (SAM) utilizing Arduinos to manipulate solenoids which allow the microrobot to navigate on a silicon wafer to perform different tasks
- Performed microfabrication work for the silicon wafer conforming with ICRA standards in the competition
- Technologies and techniques utilized: Photo-Lithography, thin-film deposition via physical and chemical methods, PCB fabrication, Wet Lab training, Clean Room Certification, WHMIS 2015, and compressed gas training

### Research Assistant

*Jan 2019—Present*

#### Ting Tsui

*Toronto, ON, CA*

- Assisted in the research of Ting Tsui with Integrated Circuits
- Imaged samples utilizing Scanning Electron Microscopy techniques, and spent over 100 hours in lab
- Trained in SEM imaging as well as XPS and TEM.

### Summer Intern

*August 2017—Sept 2017*

#### CareerLeaf

*Toronto, ON, CA*

- Created marketing reports as requested, and helped generate sales through industry research on different career platforms
- Designed and developed a working prototype of a finance module used to update old finance data.
- Skills used: Wireframing, UX/UI design, Python.

### National Outreach Director

*February 2016—Present*

#### STEM Fellowship

*Toronto, ON, CA*

- Managed a national team of over one hundred fifty ambassadors and team members for outreach and partnership projects
- Helped procure sponsorship for numerous events including the regional workshops for ambassadors and the Big Data Challenge
- Worked closely with the national team to develop new standards in STEM education and developed curriculum for teachers in Canada

## ENTREPRENEURSHIP

### Innovator

*Oct 2016—June 2018*

#### The Knowledge Society

*Toronto, ON, CA*

- Learned the basics of what it takes to be an Entrepreneur by working on skills such as presentation, deck design, one-pagers, and consulting
- Created one-pagers and presentations for innovative technologies in nanotechnology, AI, blockchain, genomics, VR/AR, and lots more
- Selected to participate in the March Break Bootcamp at Princess Margaret Hospital for cancer research

### Co-Founder and CEO

*Oct 2017—Present*

#### Omicron

*Toronto, ON, CA*

- Organized numerous hackathons for high school students as well as corporations including Red Bull and Gore Mutual
- Developed a platform to assist with sponsor ROI at hackathons utilizing Firebase, JavaScript, and Angular JS
- Developed relations with numerous hackathons such as Hack the Valley, Hack the North, PennApps, U of T Hacks, DeltaHacks and pitched in the Velocity \$5K Competition.

## CLUBS

### Sponsorship Team Lead

*Sept 2018—Present*

#### Waterloop

*University of Waterloo*

- In charge of procuring monetary and in-kind sponsorship from corporations with value over \$30K and managing sponsor relations with international companies

### Finance/Partner Relations Executive

*Sept 2018—Present*

#### University of Waterloo Coffee 'N Code

*University of Waterloo*

- Hosted a MLH Local Host workshop to teach people about technical interviews
- Managed relations with external companies including Microsoft, Google, and numerous local startups

## TECHNICAL COMPETENCIES & PROJECTS

- Lab: Clean Room training, Compressed Gas training
- Hackathons: Hack the North, NASA Space Apps, THacks 2
- Coursera Courses Audited: Nanotechnology, A Makers Course, Nanotechnology and Nano sensors Pt. 1
- Programming Languages: JavaScript, Python
- Data Visualization Software: Python, Excel, and learning MATLAB
- Web Dev and Design: HTML, CSS, SolidWorks, AutoCAD

**Languages** – English: native. Cantonese: native. Mandarin: native. French: Spoken