

RYAN LI

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A self-motivated 1B Nanotechnology Engineer at the University of Waterloo, The Knowledge Society Alumni, and SHAD Fellow who is passionate about nanotechnology, entrepreneurship, and bringing impact to the world through technology.



SUMMARY OF QUALIFICATIONS

- Project-Oriented experience in using literature to create and procedures of experiments in a laboratory setting.
- Experience in JavaScript, Python, HTML, CSS, Excel, and Solidworks, web development, and mobile app development
- Skillful at conducting presentations with experience presenting for Velocity \$5K competition and pitching in front of investors for intern position
- Strong interpersonal skills and experienced in leading teams



EXPERIENCE

Technical Team member and Micro-fabrication Lead | University of Waterloo NanoRobotics Group

SEPTEMBER 2018 – PRESENT

- Worked on the Solenoid Actuated Microrobot (SAM) through PCB manufacturing, solenoid manipulation through Arduino control systems, optical microscope, and C++ code.
- Selected to be one of two students to be trained and working in a clean room at CIRFE in the microfabrication of the silicon wafer for the microrobot to perform ICRA challenges on such as navigation and assembly.
- Worked with electron-beam lithography techniques, PECVD, wet etch and dry etch, compressed gas management, stock solutions, CMP and, learned the mentality needed for research.

Volunteer Research Assistant | Professor Ting Tsui at University of Waterloo

JANUARY 2019 – PRESENT

- Trained in Scanning Electro Microscopy (SEM) techniques to help graduate students image their samples and work in lab settings

National Outreach Director | STEM Fellowship, Canada

FEBRUARY 2016 – PRESENT

- Managed entire national outreach and ambassador team to help develop strategic partnerships, seek funding, and develop resources for STEM education through workshops, online resources, and seminars.

Co-Founder | Omicron

OCTOBER 2017 - PRESENT

- Developed a platform to be used at hackathons for sponsor ROI through Angular JS, Firebase, and front-end web development.
- Helped organize hackathons for various corporate groups and schools including Red Bull AdrenaLAN, JAM Hacks, Hack the Hammer, THacks 2, and Pentahacks.

Intern | Careerleaf

AUGUST 2017 – AUGUST 2017

- Developed a program to help organize and transfer data of financial statements from older versions of Quickbooks to newer versions through python and UX/UI design on Invision
- Drove sales up from previous quarter through data aggregation of potential clients through LinkedIn and excel spreadsheets



PROJECTS

Technology Articles | Medium Posts and Personal Website

OCTOBER 2017 – PRESENT

- Created articles and One-pagers focusing on several high-tech concepts, including the basics of lithography, cancer research, and applications of nanotechnology.

Hacker | Hack the 6ix

AUGUST 2017

- Created a platform for millennials to invest on that takes out the various challenging variables in investing through Quandl APIs, Python scripts, and a chatbot built on Kik.



INTERESTS

Hackathons (Participated and organized over 15), Auditing Coursera Courses (Audited 2 Nanotechnology and Sensors Courses), Music, Working Out, Reading Research Papers, Sprinting, and Learning. Fluent in English, Mandarin, Cantonese and French.