

# Derrek Chow

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## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, HTML, CSS, C/C++, Swift

**Frameworks / Tools:** Bootstrap, MDL, Foundation, Git, MongoDB, Gatsby.js, AWS

**Libraries:** jQuery, Node.js, Express.js, React

## RELEVANT EXPERIENCE

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### Myplanet Fellow

Aug. 2017

**Myplanet** • Toronto, ON

- Architected a data aggregation system for Pathways Canada with an **Express.js** server.
- Collaborated in a development team of upper year university students in a 2 week program sponsored by IBM.

### Software Developer Intern

Aug. 2016 – Jun. 2017

**Viceroy Media Inc.** • Toronto, ON (remote)

- Developed an exam network for the University of Guelph by implementing features which include ratings, course listings, a forum, and custom search with **jQuery**.
- Introduced a payment system for a web hosting service with the **Stripe API**.
- Built an **Android** app which displays information on places of interest based on user's location/preferences.

### Director and Founder

Sept. 2016 – Dec. 2016

**Ridge Hacks** • Oakville, ON

- Spearheaded the **first (now annual) student-run hackathon** in the Halton Region with **60 first-time hackers**.
- Led a team of 15 student organizers and raised over \$2000 in sponsorships.

## PROJECTS AND AWARDS

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### MasseyHacks III Best Hardware, Best 3D Printed, 3rd Best Overall Hack

Apr. 2017

- Built a device to assist the visually impaired with reading which speaks out loud text on a page when pointed to in real time.
- Implemented finger tracking with the **Leap.js API** and used a **JavaScript** port of **Tesseract** for OCR.

### Tech Under Twenty Cup 3rd Place • WikiNotes

Feb. 2017

- Designed and created a study notes sharing platform with **JavaScript** and **jQuery** that allows students to upload, view and favourite each other's study notes.

### Software Engineering Class Project • Automatic Cannon

Nov. 2017

- Constructed a spring-loaded mini cannon mounted on a Raspberry Pi which tracks and fires at a target using facial recognition with **Python** and **Node.js**.

### Hack the North Honourable Mention • Smart Fridge Hack

Sept.

- Built a cardboard smart fridge which recognizes food items, connects to an **iOS** app that suggests food recipes and reminds users of expiry dates.

2017

- Sent images with **Python** to an **Express.js** server and used **IBM Watson's Visual Recognition API**.

### Jean Lumb Innovation Award

Oct. 2017

- Awarded to an Ontario student for an original innovation which created a lasting impact in its area.

### IRHS Student Trailblazer Achievement Award

Mar. 2017

### Procor Limited Technical Award

Jun. 2017

## EDUCATION

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### Candidate for Bachelor of Software Engineering

2017 – 2022

**University of Waterloo** • Waterloo, ON