Derrek Chow

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TECHNICAL SKILLS

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

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

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 **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. 2017

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

Candidate for Bachelor of Software Engineering
2017 – 2022

University of Waterloo • Waterloo, ON