

James Huynh

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Education

University of Toronto

Honours Bachelor of Science, Computer Science

Sep 2016 – Present

Toronto, ON

Experience

Embedded Software Designer at ExtentCom

- Developed command-line interfaces, scripts, and cryptosystems for wireless communication tools using **C** and **Perl**
- Implemented network error checks and crypto algorithms like **CRC** and **RSA** for reliable communication across wireless devices
- Contributed to tools like radios, power meters, switches, and storage prototypes

May – Aug 2018

Richmond Hill, ON

Projects

A Matter of Mind

- Collaborated with a non-profit organization to develop a web app that connects PTSD victims to services assisting with medical, legal, or financial needs
- Developed the front-end with vanilla **JS** and the back-end using **Node.js** & **Express**
- Regularly consulted with a non-profit representative about web design and features

Oct – Nov 2018

Toronto, ON

Steam Badge Aggregator

- Developed a web app that collects prices of video games compared with trading cards distributed by Steam, a PC gaming platform, using their store API
- Implemented a data scraper with **Python** and the front-end with vanilla **JS**
- Designed for Steam trading card hobbyists to gauge various game prices

Jul 2018

Toronto, ON

Interactive Treemap Visualizer

- Implemented a geometric tree visualisation algorithm using **Python**
- Designed to interact with real-world data in **JSON** such as the World Bank API

Nov – Dec 2016

Toronto, ON

Competitions

Educational Computing Organization of Ontario Contest

- Placed **Top 3** among school board (DPCDSB) and advanced to regionals in both years with a team of 4 students
- Used **Python** and **Java** to solve 4 challenging coding problems within 3 hours
- Improved communication skills by working under constraints within the team

Apr 2015 | 2016

Toronto, ON

Volunteering

Hour of Code

- Moderated the annual coding event with introductory programming activities to raise students' interest in coding

Dec 2014 | 2015

Mississauga, ON

Skills

Proficient with: **Python, Java, C, HTML/CSS, JS** Familiar with: **Node.js, MongoDB, PostgreSQL, Git, Perl**