

# 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

## 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

### GameMaker Competition

*Mansion Buster*, a nightmare-themed top-down shooter

- Implemented game mechanics like player abilities using the GameMaker engine
- Designed levels and helped manage a team of 5 during the school term
- Game was recognized for unique puzzle design and enemy mechanics

Sep – Dec 2015

Mississauga, ON

## Projects

### 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

## 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**

Familiar with: **HTML/CSS**, **JS**, **Perl**, **PostgreSQL**, **Git**