James Huynh

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Education

University of Toronto	Sep 2016 – Present
Honours Bachelor of Science, Computer Science	Toronto, ON

Experience

Embedded Software Designer at **ExtentCom**   May – Aug 2018
                                                          Richmond Hill, ON

- 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

Competitions

Educational Computing Organization of Ontario Contest   Apr 2015 | 2016
                                                                   Toronto, ON

- 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

GameMaker Competition   Sep – Dec 2015
                                    Mississauga, ON

Mansion Buster, a nightmare-themed top-down shooter

- Managed development of the game with 5 team members during a school term
- Implemented mechanics like player abilities using the GameMaker engine
- Game was recognized for unique puzzle design and enemy mechanics

Projects

Steam Badge Aggregator   Jul 2018
                                     Toronto, ON

- Developed a webpage in **JS** and **Python** that collects prices of video games versus trading cards distributed by Steam, a PC gaming platform
- Designed for Steam trading card hobbyists to gauge various game prices

Interactive Treemap Visualizer   Nov – Dec 2016
                                             Toronto, ON

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

Volunteering

Hour of Code   Dec 2014 | 2015
                          Mississauga, ON

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

Skills

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