

University of Waterloo, 1B Software Engineering



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### Skills

#### Languages:

- Experienced in Java, C++
- Familiar with C, Arduino, HTML

#### Technologies:

 Git, Eclipse, Bootstrap, Node.js, UML

# **Projects**

#### **IBM Watson Developer Challenge**

Ongoing

 A website built with Node.js and Bootstrap, which uses the Watson news and document analytics API to generate a score based on popularity and reception of products

Personal Website Ongoing

 Built based on a Bootstrap template with additional features such as embed YouTube video player

## **Tetromino Simulator**

Oct 2015 – Dec 2015

- Tetris game developed using Processing, a variation of Java, controlled using the Launchpad microcontroller
- Developed serial communication between the computer and the microcontroller
- Implemented Tetris graphics and game logics in modular and maintainable ways

Mayo

Oct 2015 – Dec 2015

- Gesture-controlled painting software developed in Java using the Myo armband and the Myo library
- Utilized the Swing and AWT library for functions such as drawing, erasing, changing color and thickness, and saving to a file

## **Dongerino Adventure**

Nov 2014 – Jan 2015

- 2D turn-based strategy game developed using Java and Lightweight Java Game Library
- Implemented a game AI logic using breath-first search and Dijkstra's shortest path algorithm
- Designed UML diagram using object-oriented design principles
- Developed the core engine of the game, which was responsible for unit interactions

## **Experience**

#### **Vice President, Computer Science Club**

Sep 2014 – Jun 2015

- Tutored other students in Java and C++ about software design principles, and algorithms
- Organized weekly meetings, contests, and demos

## **Awards & Achievements**

**Cumulative Average** | 95.3%

Sep 2015 – Dec 2015

Canadian Computing Olympiad | Bronze Medalist

May 2015

**Canadian Computing Competition – Senior** | Top 20 across over 3000 contestants

Feb 2015

**Canadian Computing Competition – Junior** | First across over 3000 contestants

Feb 2015