IanHu

[github.com/ian952](http://github.com/ian952)

[ianhu.ca](http://ianhu.ca/)

[y272hu@uwaterloo.ca](mailto:y272hu@uwaterloo.ca)



University of Waterloo, 1B Software Engineering

# Skills

**Technologies**:

* Git, Eclipse, Bootstrap, Node.js, UML

**Languages:**

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

# Projects

## [IBM Watson Developer Challenge](https://github.com/ian952/Watson-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](http://ianhu.ca/) Ongoing

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

## [Tetromino Simulator](https://github.com/ian952/Tetris) 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](https://github.com/ian952/mayo2) 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

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