Ryan Wong

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Experience

Software Engineer Job-Shadow at Alcatel-Lucent, Ottawa, ON

August 2014

- Implemented XML over TCP/IP support in various client/server connections using C# and Perl
- Applied MVC architecture in development of blog application using Ruby On Rails and incorporated RESTful architecture using the Rails router

Website Developer at SWS Engineering Inc., Mississauga, ON

January 2014-April 2014

- Designed an interactive web page using HTML5 and CSS3, incorporating a responsive web design to ensure proper formatting on mobile devices
- Added web forms for clients to submit inquiries

Projects

AssignmentTracker Android Application, Personal Project

September 2015-November 2015

- Notifies users of upcoming due dates and automatically updates weekly assignments
- Checks for assignment overlaps and sorts entries using an AVL tree
- Allows users to communicate over Wi-Fi and share assignment files
- Java, SQL, XML, JSON

ImageGrabber Android and Desktop Applications, Personal Project

October 2015-November 2015

- Fetches images from Flickr and Booru imageboards and resizes bitmaps into a fluid, scrollable view
- Java, Ruby, Nokogiri, SQL, XML, JSON

MaplePlay Game Bot, Personal Project

June 2013-June 2014

- Built scripts to automatically gather items in the online game Maplestory
- Converts game maps to graphs and uses Dijkstra's algorithm to pick the fastest routes
- C++, Java, AutoIt

DoodleJump Clone, School Group Project (University of Waterloo)

September 2015-November 2015

- Rewrote platforming game for the Tiva C Launchpad microcontroller kit
- Developed bitmap to byte array converter to display graphics; supports resizing and rotations
- C, C++

Education

Candidate for Bachelor of Software Engineering, University of Waterloo, Waterloo, ON

September 2015-Present

- Relevant courses: Programming Principles, Introduction to Methods of Software Engineering, Introduction to Data Abstraction and Implementation
- Cumulative 4.0 GPA

Ontario Secondary School Diploma, The Woodlands School, Mississauga, ON

June 2015

• Relevant course: Computer Science

SAT – 800 Reading, 790 Writing, 800 Math (2390 cumulative, one sitting)

December 2014

Awards and Achievements

ECOO Central Region Programming Contest 2nd place

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2015

• The Woodlands School Computer Science, Functions, and English awards, for highest grade

AMC 12 Honour Roll, qualified for AIME

2014 2014

Activities and Interests

The Woodlands School Computer Science Club Executive

September 2014-June 2015

- Taught general members implementations of basic data structures and sorting algorithms in Java
- Led school team at programming competitions

Interests: trombone, piano, badminton, online computer games with friends

Languages, Technologies, and Concepts

- Java, C++, C, Python, Ruby, HTML5, CSS3, XML
- Arrays, linked lists, binary search trees, graphs, hash tables, heaps, BFS, DFS, merge/quick/heapsort