**EMPLOYMENT EXPERIENCE**

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| July 2013 –  Present | **ESCTT Inc.** | Toronto, Ontario |
| *Software Engineer*   * Developed an application and database from the ground-up to store health care records for thousands of palliative care patients in the Greater Toronto Area. Wrote a script to normalize and transfer all data from old system while maintaining data integrity. Currently holds over 100,000 records. Set up VPN Server for secure access. Uses MySQL and PHP backend. [MySQL, PHP, VB.NET, HTML + CSS, JavaScript + jQuery, Linux Server] * Independently developed a fully-featured risk management web application that provides project managers with tools to analyze the impact of risks that may impact projects and create mitigation plans. Engineered the database, all application logic and the user interface. Data model allows users to grant specific permissions to other users to enable collaboration and project sharing. Includes automatic recurring billing system. Developed an extension for Microsoft Project that allows users to synchronize their projects. Beta testing conducted by project management professionals has yielded excellent feedback. [MySQL, PHP, VB.NET, HTML + CSS, JavaScript + jQuery, Linux Server] * Built a web application that provides financial advisors and investment professionals with tools to conduct in-depth analysis of client portfolios and track performance. Developed data model that allows for analysis of multiple portfolios across various clients. Early feedback from financial professionals has been extremely positive. [MySQL, PHP, Python, HTML + CSS, JavaScript + jQuery, Linux Server] * Maintained Linux web servers and deployed web applications [Linux Server] | |
| November 2012 –  July 2013 | **Kids’ Great Minds** | Various Locations |
| *Instructor*   * Created and executed lesson plans with an aim to teach students fundamental computer programming skills [Java, Visual Basic, C++] * Improved ability to communicate highly-technical information | |
| July 2011 –  August 2011 | **Beijing No. 4 High School** | Beijing, China |
| *Teaching Assistant*   * Created lesson plans with an aim to improve students’ English skills * Drastically improved communication and teamwork skills * Learned to work effectively in a foreign and unfamiliar environment | |

**PERSONAL PROJECTS**

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| July 2013 | **Remote Desktop Application**   * Developed the core functionality for a remote desktop application, including server and client deployments [Java, Threading] |
| January 2013 | **Live Television Display Application**   * Developed an application for Aurora High School that displays updated weather and news reports, as well as school announcements, on television displays throughout the school [Java] |
| October 2012 | **Sudoku Solver Application**   * Developed an application which uses two algorithms in conjunction to solve any Sudoku puzzle [Java] |
| October 2009 – June 2012 | **Video Game Development**   * Notable projects include a Tetris game with visually-appealing graphics and music, a cribbage game with sophisticated artificial intelligence, Othello game, Guess Who game, fractal tree generator [Java, VB.NET] |

**EDUCATION**

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| September 2013 – | **University of Waterloo** | Waterloo, Ontario |
| Present | *Candidate for Bachelor of Applied Science, Mechatronics Engineering*   * Awarded Term Dean's Honours List for 1A term * Completed 1A term with an overall average of 93.8% * Awarded President’s Scholarship for high school admission average * Elected Class Representative for the University of Waterloo Engineering Society * Finished fourth overall in the entire 1A Mechatronics Engineering class * Relevant Assignments:   + Built and programmed a robot that located books on a bookshelf using colour barcodes and a binary search algorithm [RobotC] (MTE 100, GENE 121)   + Programmed a fuel-cell powered car to navigate through various obstacle courses [C++] (MTE 100, GENE 121, CHE 102) | |
| September 2009 – June 2013 | **Aurora High School**  *Ontario Secondary School Graduate*   * Awarded Principal’s Award at graduation * Ontario Scholar * French Immersion Certificate * University of Waterloo Fermat Math Contest School Champion | Aurora, Ontario |

**EXTRACURRICULAR ACTIVITES**

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| June 2011 –  June 2013 | **Aurora High School Student Council** | Aurora, Ontario |
| *President*   * Directed meetings and organized small and large events in the school and community * Managed the Student Council’s operating budget * Collaborated with school and board administration on a regular basis | |
| September 2011 – June 2013 | **Aurora High School Audio/Video Crew** | Aurora, Ontario |
| *Crew Member*   * Arranged audio and video equipment for events and presentations in the school | |
| September 2009 – June 2013 | **Aurora High School Robotics Team** | Aurora, Ontario |
| *Team Captain*   * Led team to multiple public tournaments and various regional and provincial competitions, including Robofest 2010, 2011 and 2012 * Advanced to the 2010 and 2012 Robofest World Championships, held at the Lawrence Technological University in Detroit, Michigan * Placed 4th in the senior game at the 2010 Robofest World Championship with a robot that cleared debris and rescued victims from a natural disaster simulation | |