**RELEVANT SKILLS**

|  |
| --- |
| * Proficient with C++, Java, Python, PHP, VB.NET, RobotC, JavaScript, HTML5/CSS3 * Well versed with relational databases, particularly MySQL, with experience developing complex data structures for large applications * Skilled with Linux and experience deploying applications to and maintaining Linux servers * Familiar with the Git version control system * Experience in robotics and writing code to interface with sensors and other hardware * Experience with 2D and 3D CAD Design software, namely AutoCAD (2D) and SolidWorks (3D) |
|

**EMPLOYMENT EXPERIENCE**

|  |  |  |
| --- | --- | --- |
| July 2013 –  Present | **ESCTT Inc.** | Toronto, Ontario |
| *Software Engineer*   * Developed an application and database 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. [MySQL, PHP, VB.NET, HTML + CSS, JavaScript, Linux Server] * Developed a risk management web application for project managers. Engineered the database, all application logic and the user interface. Includes automatic recurring billing system. Developed an extension for Microsoft Project that allows users to synchronize their projects. Early feedback from project management professionals has yielded excellent feedback. [MySQL, PHP, VB.NET, HTML + CSS, JavaScript, Linux Server] * Built a web application that provides investment professionals with tools to conduct analysis of client portfolios. Early feedback from financial professionals has been extremely positive. [MySQL, PHP, Python, HTML + CSS, JavaScript, 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 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**

|  |  |
| --- | --- |
| 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 live weather, news reports and school announcements on television displays throughout the school [Java] |
| October 2012 | **Sudoku Solver Application**   * Developed an application that can solve any Sudoku puzzle [Java] |
| October 2009 – June 2012 | **Video Game Development**   * Notable projects include a Tetris game with graphics, a cribbage game with sophisticated artificial intelligence, Othello game, Guess Who game and a fractal tree generator [Java, VB.NET] |

**EDUCATION**

|  |  |  |
| --- | --- | --- |
| 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 with an overall average of 93.8% * 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, French Immersion*   * Awarded Principal’s Award at graduation * University of Waterloo Fermat Math Contest School Champion | Aurora, Ontario |

**EXTRACURRICULAR ACTIVITES**

|  |  |  |
| --- | --- | --- |
| 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 | |
| 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*   * 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 | |