

PAUL ASHBOURNE

Mechatronics Engineering, University of Waterloo
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Aurora, ON, Canada
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SKILLS

Top skills: Python, Java, C++, MongoDB, MySQL PHP, JavaScript, HTML/CSS, MVC, Linux, Apache

Proficient: RobotC, VB.NET, VPN

Familiar: AutoCAD (2D), SolidWorks (3D)

EMPLOYMENT EXPERIENCE

ContextLogic

Software Engineer

Python, MongoDB, Backend, Hive

August 2014 – Present

- Built a platform that allows representatives of brand names to remove counterfeit items

ESCTT Inc.

Software Engineer

MySQL, PHP, VB.NET, HTML/CSS, JavaScript, Linux Server, Python, VPN

July 2013 – April 2014

- Built a **financial analysis application** that provides investment professionals with tools to conduct analysis of client portfolios.
- Developed a **health care database and application** for palliative care patients. Wrote a script to transfer data from old system while maintaining data integrity.
- Developed a **risk management web application** for project managers. Engineered the database, all application logic and interface.

PERSONAL PROJECTS

Remote Desktop Application

July 2013

Java, Threading

- Developed the core functionality for a remote desktop client and server applications.

Live Television Display Application

January 2013

Java

- Developed an application for Aurora High School that displays live weather, news reports and school announcements on television displays throughout the school.

Sudoku Solver Application

October 2012

Java

- Developed an application that can solve any Sudoku puzzle. Uses a modified version of the backtracking algorithm for optimal performance.

Video Game Development

October 2009 – June 2012

Java, VB.NET

- 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.
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EDUCATION

University of Waterloo

Candidate for Bachelor of Applied Science, Mechatronics Engineering

September 2013 – Present

- 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)

Aurora High School

Ontario Secondary School Graduate, French Immersion

September 2009 – June 2013

- Awarded Principal's Award at graduation.
- University of Waterloo Fermat Math Contest School Champion.

EXTRACURRICULAR ACTIVITIES

Aurora High School Robotics Team

Aurora, Ontario

Team Captain

September 2009 – June 2013

- 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.

Aurora High School Student Council

Aurora, Ontario

President

June 2011 – June 2013

- Developed leadership and management skills.

Beijing No. 4 High School

Beijing, China

Teaching Assistant

July 2011 – August 2011

- 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.