

# Alfred Cao

1B Computer Engineering

url: alfredcao.me

yushi.cao@uwaterloo.ca

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## Skill Set

- Proficient in C#, Java, VBA;  
Familiar with VB, HTML, CSS, JavaScript, jQuery, SQL, and Arduino
- Proficient in MS Office, especially in Excel, Access and Word
- Experience of working on Unix system (Ubuntu)
- Experience of designing and building databases
- Photographer, experience of Adobe Photoshop
- Able to communicate in both English and Chinese Mandarin
- Good driver with Ontario G licence

## Education

**Candidate for Bachelor of Applied Science, Computer Engineering, University of Waterloo, ON, Sept. 2014 – Present**

GPA 4.0; President's Scholarship of Distinction

**Ontario Secondary School Diploma: St. David Catholic Secondary School 2014**

Honour Roll Academic Achievement; Ontario Scholar

## Experience

**IT Support, City of Toronto – Toronto Water, Toronto, Canada, Winter 2015**

- Designed and built multiple databases on MS Access platform using VBA
- Troubleshoot other databases; fixed and enhanced existing systems
- Maintained and documented databases

**Technical Support & Customer Service (Apprentice), Xinyu Computer Technology Ltd. Mudanjiang, China, Summer 2014**

- Troubleshoot for PC hardware, operating system and application software
- Assembled compatible PC
- Installed and troubleshoot CCTV cameras using DVR and PC

**Technical Support (Apprentice, Volunteer), Mudanjiang Petroleum Company, Mudanjiang, China, July 2013**

- Installed and troubleshoot CCTV cameras using PC network
- Arranged wire for over 800m net length in a team

## Project

**Coop, Winter 2015: Access Card Tracking Database; Acquisition Database; Document Control Database**

Designed and built the three databases on MS Access platform, involving VBA and SQL programming, linked data across different systems.

**Personal and Company's Website**

Designed and built websites using HTML, CSS and jQuery. Websites are hosted on Github, see my website for details.

### **Arduino Segway Robot**

Built self-balancing segway robot using Arduino as controller, involved Accelerometer and half-bridge driver. See my website for details.

### **Volunteering**

#### **Custodian Assistant Waterloo Mennonite Brethren Church, Waterloo, ON, Oct. 2012 – Dec. 2013**

Provided weekly maintenance for church through assisting custodian

#### **After-school Program Assistant Christ Evangelical Lutheran Church, Waterloo, ON, Oct. 2012 – Dec. 2013**

- Organized snacks for program attendees, ensuring accuracy of process
- Worked as part of a team to provide safe after- school program for approximately 15-30 children

### **Awards and Achievements**

- Subject Award for Outstanding Achievement in Grade12 Computer Engineering Technology, St. David Catholic Secondary School, Waterloo, ON, June. 2014 (awarded for graduating as top of class)
- Canadian Senior Mathematics Contest: Certificate of Distinction, School Champion and Medalist, University of Waterloo, Waterloo, ON, 2013
- Euclid Math Contest: Certificate of Distinction, University of Waterloo, Waterloo, ON, 2013

### **Activities & Interests**

Enjoy arts: photograph, piano, violin

Enjoy sports: swimming, skiing, archery, badminton

Enjoy cooking.....