# Alfred Cao

1B Computer Engineering

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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
* Troubleshot other databases; fixed and enhanced existing systems
* Maintained and documented databases

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

* Troubleshot for PC hardware, operating system and application software
* Assembled compatible PC
* Installed and troubleshot CCTV cameras using DVR and PC

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

* Installed and troubleshot 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......