



# Zexuan (Aaron) Wang

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## OBJECTIVE

A dedicated individual who is seeking for a full-time software developer position starting May 2016.

## EDUCATION

### **University of Toronto, Engineering Science, (Computer Engineering option)**

Sept. 2011 - present (2016 graduation expected, currently in 4<sup>th</sup> year)

- Cumulated GPA: 3.78 out of 4.0 with a top ranking of No.8 out of 253

### **A.Y Jackson Secondary School, North York, ON**

Sept. 2008 – Jun. 2011

- High school diploma with a graduating average of 95.7%

## RELEVANT SKILLS

### **Programming/Design languages**

- Proficient in Java, Python, Javascript (with jQuery), PHP, HTML5, CSS3, C/C++ and Go
- Past experience with Matlab, Objective C, Virtual Basic, Swift and Turing

### **Practical Technical Skills**

- Knowledge in Object Oriented Programming and common design patterns
- Familiar with basic data structures and common algorithms
- Ability to develop in different operating systems and IDEs (I use Vim instead of Emacs)
- Practical experience working with third-party libraries and APIs
- Experience working with version control software including Github, Perforce and Subversion
- Experience in website, Facebook and Android app development
- Understanding in computer architecture, operating system, database and network fundamentals

### **Other Skills**

- Strong background in multiple areas of mathematics with the ability to utilize software to create simple mathematical modelling
- Dedicated individual who is willing to learn and employ new concept and knowledge

## WORK EXPERIENCE

### **SETI (Software Engineer, Tools and Infrastructure) Intern, Google Inc. (May 2015 – Aug 2015)**

- Create custom presubmit service for a backend platform for the social team
- Improvement for an internal dashboard that monitors social backend performance

### **Software Intern, Altera Corp. (May 2014 – May 2015)**

- Monitor daily builds for Quartus software and debug potential problems
- Create and maintain experiment framework to run circuit designs automatically
- Conduct competitive analysis to compare Quartus with Vivado

### **Software Developer Summer Intern, Rocscience Inc. (May – Sep 2013)**

- Developed a new 3D stress analysis Windows application called ExamineTab (Computation Engine provided by another PhD student)
- Programed in VC++ using MFC library and 2D CAD framework provided by Rocscience Inc.
- Receipt of NSERC (Undergraduate Student Research) award

**Research Assistant**, University of Toronto (Apr – Jun 2012)

- Introduced new Python and Matlab programs to measure the dominant wavelengths of experimental images using 2D Fourier Transform
- Expedite data collection and analysis process
- Participant of the SURF (Summer Undergraduate Research Fellowship) program

**Past Personal & School Projects** (all available at [www.individual.utoronto.ca/zexuan](http://www.individual.utoronto.ca/zexuan))**Engineering Chinese Club (ECC) Website** (Aug 2014 - present)

- A mobile-friendly website demonstrating club information and activities as well as the ability for club members to purchase meals online
- Built from scratch with another student
- Available at: <http://ecc.skule.ca>

**Typing Speed Competition** (May 2013)

- A simple Javascript-based website that measures one's typing speed and accuracy with the functionality to compare with other users
- Available at [https://apps.facebook.com/typing\\_speed\\_comp/](https://apps.facebook.com/typing_speed_comp/)

**Score Management System for TDSB Badminton League** (Jan 2011)

- A website designed for TDSB Badminton League with the ability to schedule matches, submit scores and rank individual schools/players
- Accomplished in HTML, PHP and mySQL database with three other group members

**Connect of Five Chess Game** (Jun 2010)

- Desktop Java application of the Connect of Five chess game with an attempt of AI implementation
- Object-oriented programming in Java with appropriate GUI using the Swing package
- Available at [http://individual.utoronto.ca/zexuan/software.htm#connect\\_of\\_five](http://individual.utoronto.ca/zexuan/software.htm#connect_of_five)

**Other Projects/Activities**

- **Hackathon Hero:** A simple RPG game that allows two players playing against each other over Bluetooth in Java (Accomplished within 36 hours with two other students) (Sept 2013)
- **Online Chatting Website:** Instant messaging with other communication between two registered users (Jun – Aug 2012)
- **Game of 24:** Card game of 24 that not only evaluates an input expression but also calculates the correct answer using a Binary Expression Tree Turing (Dec 2009)
- **Autonomous Dowel-packing Robot:** Design and construct a dowel-packing machine that is able to sort and pack 12 dark and white wooden dowels in any given pattern (Jan – Apr 2013)
- **Computer Science tutor at InstaEdu:** <http://instaeedu.com/online-tutors/Aaron-W-24135/>

**Extra Curriculum**

- **Club Involvement:**
  - Co-founder and co-president of Math Agora Club: Prepare students with math and computer-science related contests (Sept 2010-May 2011)
  - President of University of Toronto Table Tennis Club: <http://utttc.sa.utoronto.ca/> (May 2014-current)
  - Software Chapter Chair of IEEE UofT branch: <http://ieee.utoronto.edu> (May 2014-current)
- **Academic Contest Results:**
  - Ranked No.13 among 16,000 participants in Grade 12 Euclid Math contest (April 2011)
  - Invited to participate in Canadian Mathematical Olympiads (2011)
  - 2<sup>nd</sup> place in the Orthello Artificial Intelligence competition (April 2014)
- **Professional Table Tennis Experience:**
  - Past Canadian senior table tennis national team member, currently ranking No.10 in Canada
  - Second place in 2011 Canada Winter Game Men's Singles

**Reference**

All personal projects, working reference and academic results are available upon request.