# Zexuan (Aaron) Wang

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## OBJECTIVE

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

## EDUCATION

**University of Toronto, Engineering Science (Computer Engineering option)**
Sept. 2011 – May. 2016
- Cumulated GPA: 3.82 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 Python, Java, C, Javascript (with jQuery), HTML5, CSS3
- Past experience with Matlab, C++, Virtual Basic, PHP, Go 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
- Practical experience working / developing with third-party libraries and APIs
- Experience working with version control software including Git, Mercurial and Perforce
- Experience in website, Facebook and Android app development
- Knowledge in artificial intelligence, machine learning, computer architecture, operating system, database, file system, distributed system, computer network and security

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

## WORK EXPERIENCE

**Member of Technical Staff**, Qumulo Inc. (Oct 2016 – Current)
- Improve protocol implementation (NFS, SMB and LDAP) for a distributed file system
- Modify the protection layer of the file system to support 3 simultaneous drive failures
- Analyze and improve various performance problems

**SETI** (Software Engineer, Tools and Infrastructure) **Intern**, Google Inc. (May 2015 – Aug 2015)
- Create custom pre-submit checks for the Google Social team
- UI Improvement for an internal monitoring dashboard

**Software Intern**, Altera Corp. (May 2014 – May 2015)
- Monitor daily builds for Quartus software and debug potential problems
- Create and maintain testing framework to compile and execute circuit designs
- Competitive analysis to compare Quartus with Vivado

**Software Developer Summer Intern,** Rocscience Inc. (May – Sep 2013)
- Developed new 3D stress analysis Windows application called ExamineTab
- Programmed 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 expedite data collection process
- Participant of the SURF (Summer Undergraduate Research Fellowship) program

## *Past Personal & School Projects* *(all available at www.individual.utoronto.ca/zexuan)*

**Semantic Understanding of Table Tennis Video Clips** (Jan 2016 – Apr 2016)
- Use machine learning to gain semantic understanding over table tennis video clips
- Undergraduate thesis, available at: https://github.com/tabletenniser/thesis

**Uber Tutor** (Jan 2016 – Apr 2016)
- A cross-platform mobile app that allows students ask for help and find nearby available tutors
- Undergraduate capstone project, accomplished with three other team members
- Demonstration at: https://youtu.be/E49yGtOkcJo

**Engineering Chinese Club (ECC) Website** (Aug 2014 – May 2015)
- A mobile-friendly website showcasing club information and activities
- Ability for club members to purchase meals online
- Available at: http://ecc.skule.ca

**Score Management System for TDSB Badminton League** (Jan 2011)
- A website designed for TDSB (Toronto District School Board) Badminton League
- Ability to schedule matches, submit scores and rank individual schools/players
- Accomplished in HTML, PHP and mySQL database with three other group members

**Other Projects**
- **Lunch Choice Maker**: A simple website that randomly chooses a nearby restaurant for the team to go to lunch (Feb 2017)
- **Typing Speed Competition:** Simple Javascript-based website that measures one's typing speed and accuracy, available at https://apps.facebook.com/typing_speed_comp/ (May 2013)
- **Connect of Five Chess Game:** Desktop Java application of the Connect of Five chess game with an AI attempt (Jun 2010)
- **Game of 24:** Card game of 24 that not only evaluates an input expression but also computes the correct answer using a Binary Expression Tree (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)
- **Online Computer Science tutor:** http://instaedu.com/online-tutors/Aaron-W-24135/

## *Extra Curriculum*

- **School Club Involvement**:
  -Co-founder and co-president of Math Agora Club: Prepare students with math and computer science related contests (2010-2011)
  -President of University of Toronto Table Tennis Club: http://utttc.sa.utoronto.ca/ (2014-2015)
  -Software Chapter Chair of IEEE UofT branch: http://ieee.utoronto.edu (2014-2015)
- **Academic Contest Results:**
  -Ranked No.13 among 16,000 participants in Grade 12 Euclid Math contest (Apr 2011)
  -Invited to participate in Canadian Mathematical Olympiads (Mar 2011)
  -2nd place in the Orthello Artificial Intelligence competition (Apr 2014)
- **Professional Table Tennis Experience:**
  -Former Canadian table tennis national team member, currently ranking top 20 in Canada
  -Second place in 2011 Canada Winter Game
- **Volunteer:**
  -Northwest director for NCTTA (National Collegiate Table Tennis Association)

## *Reference*

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