

# ZIHAO ZHANG

## WORK EXPERIENCE

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AUGUST 2015 – DECEMBER 2015

### Software Engineering Intern

**Square, Inc.** San Francisco, CA

- Designed and implemented the fulfillment system that handles the distribution of 450,000 Square Readers
- Launched new Australia onboarding pages built with Knockout.js and Ruby on Rails framework.
- Built new features and pages for Square's online hardware shop using Ember.js and Ruby on Rails
- Created structural code testing including unit tests and integration tests with Ruby and CoffeeScript.
- Refactored and optimized legacy codebase

SEPTEMBER 2013 – SEPTEMBER 2014

### Software Developer

**Mustangs FRC Robotics Team** Windsor, ON

- Lead the software development team
- Implemented autonomous robotics control system based on real time image recognition

## AWARDS

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2014 **International Olympiad in Informatics (IOI)**

BRONZE MEDAL

Represented Canada in the most prestigious high school level algorithm competition in the world

2014 **Canadian Computing Olympiad (CCO)**

GOLD MEDAL

Invitational algorithm competition for the top 20 Canadian high school students

## PROJECTS

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2015 **Zihao.me** ([github](#))

Personal website built with Nginx and Node.js

2015 **Scheme Interpreter**

Tail-recursive continuation-passing Scheme interpreter written in Racket

2014 **Cubez** ([github](#))

Rubik's Cube simulation in Java and OpenGL

2013 **Hobby OS**

x86 operating system with basic I/O, display, console and memory management support

2013 **PythonCraft** ([github](#))

Minecraft clone written in Python with C++ rendering backend



30 Hickory St. East, Apt 210

Waterloo, ON, N2J 3H7



(519) 722 - 9612



[zh6zhang@uwaterloo.ca](mailto:zh6zhang@uwaterloo.ca)



[zihao.me](http://zihao.me)



[linkedin.com/in/zzh8829](https://www.linkedin.com/in/zzh8829)



[github.com/zzh8829](https://github.com/zzh8829)

## EDUCATION

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2014 - PRESENT

### University of Waterloo

CANDIDATE FOR BACHELOR OF  
COMPUTER SCIENCE

2011 - 2014

### Vincent Massey Secondary School

HIGH SCHOOL DIPLOMA

Distinguished Honor Roll

## TECHNICAL SKILLS

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### ADVANCED

C/C++, Java, Python, Ruby,  
JavaScript, Linux, Algorithms,  
3D Graphics, Low Level

### INTERMEDIATE

C#, PHP, Scheme, Assembly, LaTeX,  
MySQL, Shell

## COMMUNICATION SKILLS

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ENGLISH Native or Bilingual

CHINESE Native or Bilingual

JAPANESE Elementary

## INTERESTS

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- Robotics / AI
- Cyber Security
- CTF, Binary Analysis
- Competitive Programming
- IOI, ACM, Codeforces, TopCoder
- Cycling (🚲 [strava](#))
- Theoretical Physics
- Philosophy