

ZIHAO ZHANG

WORK EXPERIENCE

JAN 2017 – APRIL 2017

Yelp Inc | Data Mining Engineering Intern

- Worked on Yelp search team using Apache Lucene
- Big Data Analysis on search metrics
- Created a new targeted search experience with improved ranking and scoring model

MAY 2016 – AUGUST 2016

Yahoo! Inc. | Software Engineering Intern

- Launched state of the art message routing system written in Node.js at Yahoo scale
- Worked on intelligent virtual assistant utilizing machine learning and natural language understanding

AUGUST 2015 – DECEMBER 2015

Square, Inc. | Software Engineering Intern

- Designed and implemented the logistics system that handled millions of Square credit card readers
- Launched a new client onboarding page worldwide built with Ruby on Rails framework
- Created new features and APIs for Square's online hardware shop using Ember.js

PROJECTS

2017 **Portfolio / Blog: zihao.me** ([github](#))

Built with Hugo, React, WebGL, Node.js
Kubernetes, Elixir and Phoenix

2015 **C++ Compiler**

Compiling a subset of C++ to MIPS binary with advanced code optimization techniques

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

Minecraft clone written in Python with C++ rendering backend

2013 **Hobbyist OS**

x86 operating system from scratch with I/O, display, console and memory management

COMMUNICATION SKILLS

ENGLISH	Native or Bilingual
CHINESE	Native or Bilingual
JAPANESE	Elementary

 zh6zhang@edu.uwaterloo.ca

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

 github.com/zzh8829

 zihao.me

EDUCATION

2014 - PRESENT

University of Waterloo

BACHELOR OF COMPUTER SCIENCE
Major GPA 3.7

2011 - 2014

Vincent Massey Secondary School

HIGH SCHOOL DIPLOMA
Distinguished Honor Roll

AWARDS

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

BRONZE MEDAL

One of the most prestigious computer science competitions in the world

2014 **Canadian Computing Olympiad (CCO)**

GOLD MEDAL

Invitational competitive programming competition for the top 20 students in Canada

TECHNICAL SKILLS

ADVANCED

C/C++, JavaScript, Python, Java, Ruby, Linux, 3D Graphics, Algorithms and Data Structures

INTERMEDIATE

TensorFlow, LaTeX, C#, PHP, SQL Scheme, Assembly, Shell

INTERESTS

- Cyber Security, Capture the Flag, Reverse Engineering
- Crypto Currency / Block Chain
- AI / Machine Learning, Computational Neuroscience
- Theoretical Physics, Cosmology, Quantum Mechanics