

**Local Address**

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**ZIHAO ZHANG**

2A Computer Science  
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<http://zihao.me>

**SUMMARY OF QUALIFICATIONS**

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- Five years of experience in software development with multiple programming languages
- Expert knowledge of sophisticated algorithms and their applications
- Strong analytical and problem solving skills
- Self-motivated, enthusiastic and responsible worker
- Excellent verbal and written communication skills; fluent in Mandarin Chinese

**TECHNICAL SKILLS**

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- Programming Languages: C/C++, Python, Java, Racket, Assembly, C#, JavaScript, SQL
- Software/Tools: Vim, Git, GDB, LaTeX, Sublime Text, Xcode, Visual Studio, IDA Pro
- Experienced with UNIX command line and scripting

**PROGRAMMING EXPERIENCE**

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- **Projects** (More on Github: [github.com/zzh8829](https://github.com/zzh8829))
  - <http://zihao.me>
    - My personal home page built on top of Nginx, Node.js, NoSQL stack
  - “PythonCraft”
    - 3D Minecraft Clone written primarily in Python with C++ rendering backend
  - “Cubez”
    - Rubik’s Cube simulator written in Java with OpenGL
  - Hoppy Operating System
    - 32 bit x86 OS with basic support for I/O, display, console and memory management

**AWARDS**

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- **International Olympiad in Informatics (IOI) Bronze Medal**, IOI Scientific Committee, July 2014
  - One of the most prestigious computer science competitions in the world
- **Canadian Computing Olympiad (CCO) Gold Medal**, CEMC, University of Waterloo, May 2014

**EDUCATION**

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- **Candidate for Bachelor of Computer Science**, Honours Computer Science, University of Waterloo, Waterloo, ON, Sept. 2014 – present
- **Relevant Courses**: Object-Oriented Software Development, Designing Functional Programs, Elementary Algorithm Design and Data Abstraction
- **Relevant Assignments**: Implemented a tail-recursive continuation-passing Scheme interpreter
- **Ontario Secondary School Diploma**, Vincent Massey Secondary School, Windsor, ON, June 2014

**ACTIVITIES & INTERESTS**

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- **Intramural Dodge Ball Team Member**, University of Waterloo, ON (Jan. 2015 - April 2015)
  - Winter 2015 Beginner Level Champion
- Vincent Massey Secondary School, ON
  - **FRC Robotics Team Member** (Sept. 2013 - June 2014)
    - Leader of the software development team
  - **Computer Science Club Member** (Sept. 2011 - June 2014)
    - Taught algorithms and data structures
  - **Web Development Team Member** (Sept. 2011 - June 2014)
    - Developed and maintained school website
- Computer Security
  - Reverse Engineering, Capture the Flag, Exploits Analysis
- Competitive Programming
  - Participated in IOI, ACM, Codeforces, TopCoder, Google Code Jam, Facebook Hackercup
- Cycling, Running, Philosophy, Theoretical Physics