



# Siwei Yang

*Master Candidate of Computer Science*

*Do what you like, like what you do.*

## Education

- 2014–present **Master Candidate of Computer Science**, *University of Waterloo*, Waterloo, ON.  
Specializing on Algorithms and Data Structures
- 2007–2012 **Bachelor of Honor Mathematics**, *University of Waterloo*, Waterloo, ON.  
Focused on Software Architecture, Distributed System, Programming Language and Pure Mathematics

## Experience

### Full Time

- 2012–2013 **Software Engineer**, *Maluuba Inc.*, Kitchener, ON.  
Innovating HCI with Natural Language Processing  
Major Accomplishments:
- Complete Refactor of the Legacy NLP Engine;
  - Architect and Lead the Chinese NLP Team for a Demo-able Prototype(our first non-English NLP);
  - Designed Platform Evolution Framework, within which implemented:
    - IDL inspired interface language with code generation;
    - Build/Deployment automation;
    - Context-Aware service name service(internal programmable DNS);

### Internships

- 2011–2011 **Software Engineer**, *Amazon Inc.*, Seattle, WA.  
Team of product information aggregation.  
Detailed achievements:
- Augment Product Information Aggregator to increase visibility;
  - Built internal visualization and analysis website for the Aggregator Team;

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2010–2010 **Software Engineer**, *Amazon Inc.*, Seattle, WA.

Team of application security.

Detailed achievements:

- Built internal website for the Security Department;
- Implemented back-end component for information gathering;
- Experience with Security Reviews;

2009–2009 **Software Engineer**, *Tagged Inc.*, San Francisco, CA.

Social Networking Site.

Detailed achievements:

- Built system processing user activities data;
- User analysis/Data mining design and automation;
- Design intelligent site customization based on user analysis;

## Core Skills

System	Compiler, Operating System, Real Time System
Programming	Algorithm, Concurrency, Distributed, Functional Programming
Problem Solving	Graph Theory, Combinatorial Enumeration, Group Theory, Game Theory

## Languages

Ninja	<b>Java, Python, Ruby</b>	<i>my production language</i>
Proficient	<b>C/C++, Haskell, Javascript, Clojure</b>	<i>prototyping and problem solving</i>

## Hands-On Technology

Distributed	MongoDB, MapReduce/Hadoop	Web2.0	RoR, Django
Operation	Automation/CLI Tools, AWS API		

## Interests

Sports	Soccer, Tennis
Game	Go, Starcraft
Reading	History, Mathematics, Economy