



Siwei Yang

Software Engineer

Do whay you like, like what you do.

Education

2007–2012 **Bachelor of Honor Mathematics**, *University of Waterloo*, Waterloo, ON.
Focused on Programming Language, Formal Language, Pure Mathematics and Distributed System

Experience

Full Time

2012–Present **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.*, City.

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

Languages

Ninja	Java, Python, Ruby	<i>my production language</i>
Proficient	C/C++, Haskell, Javascript, Clojure	<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