

Siwei Yang | Master Candidate of Computer Science

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Do what you like, like what you do.

Education

University of Waterloo

Master Candidate of Computer Science

Specializing on Algorithms and Data Structures

Waterloo, ON

2014–present

University of Waterloo

Bachelor of Honor Mathematics

Focused on Software Architecture, Distributed System, Programming Language and Pure Mathematics

Waterloo, ON

2007–2012

Academic Experience

Publication

On the Succinct Representation of Unlabeled Permutations, ISAAC

2015

Hicham El-Zein, Ian Munro and Siwei Yang

Work

Teaching Assistant

2014–present

assignment consultation and exam marking

Professional Experience

Full Time.....

Maluuba Inc.

Software Engineer

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);

Kitchener, ON

2012–2013

Internships.....

Amazon Inc.

Software Engineer

Team of product information aggregation.

Detailed achievements:

- Augment Product Information Aggregator to increase visibility;
- Built internal visualization and analysis website for the Aggregator Team;

Seattle, WA

2010 and 2011

Tagged Inc.

Software Engineer

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;

San Francisco, CA

2009

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: Java, Python, Ruby

my production language

Proficient: C/C++, Haskell, Javascript, Clojure

prototyping and problem solving

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