ZHIYUAN LIN, ZANE

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EDUCATION

University of Waterloo, Waterloo, Canada

09/2014 - 08/2016

Master of Applied Science in Electrical and Computer Engineering

Focus: Algorithms and Complexity; Security

GPA: 97.60/100

Awards: Faculty of Engineering Award

University of Glasgow, Glasgow, UK

09/2012 - 12/2013

Master of Science in Information Technology with Distinction

GPA: 20.053/22

Renmin University of China, Beijing, China

09/2008 - 07/2012

Bachelor of Economics

WORK EXPERIENCE

MosiaxSoft, Inc.

04/2015 - 08/2015

Software Engineering Internship (Cloud Computing)

Los Altos, USA

- · Developed in Java a cloud security management system that provides a high-level interface for monitoring and configuring the security of cloud platforms such as OpenStack.
- · Researched the complexity of various cloud management problems and designed solutions accordingly.

China Life Insurance Company

02/2014 - 07/2014

Software Engineering Internship (Web Development)

Guangzhou, China

- · Implemented a human resource management system that facilitates the management of more than 5000 employees using ASP.NET (C#) web services and Microsoft SQL Server.
- · Created an AJAX-based interactive web front-end for the system in jQuery.

PROJECTS

Joos 1W Compiler

01/2016 - 04/2016

Lead Developer

- Developed a compiler from the Joos 1W language, a large subset of Java, to NASM assembly using Java.
- · Implemented important compiler features such as type checking, static analysis, and code generation.

Resource Description Framework (RDF) Graph Security

09/2015 - 08/2016

- $Sole \ Developer$
- · Designed and implemented an algorithm that utilizes satisfiability (SAT) solvers to secure RDF graphs.
- · Empirically evaluated the implementation and visualized the data with Matplotlib.

Matching Algorithms Toolkit

04/2013 - 08/2013

Contributor

- · Implemented and optimized several matching algorithms in Java that solve the House Allocation problem.
- · Created graphical user interface for the algorithms with Java Swing.

SKILLS

Programming Languages (in order of proficiency): Java, Python, C, C#, JavaScript, Haskell

Frameworks and Libraries: SageMath, Scipy, Flask, ASP.NET, jQuery

Theory: Algorithm design and analysis, statistical analysis and data visualization

Language: English (Fluent), French (Beginner), Cantonese and Mandarin (Native)