

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 <i>with Distinction</i>	
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
<i>Software Engineering Internship (Cloud Computing)</i>	<i>Los Altos, USA</i>
<ul style="list-style-type: none">· 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
<i>Software Engineering Internship (Web Development)</i>	<i>Guangzhou, China</i>
<ul style="list-style-type: none">· 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
<i>Lead Developer</i>	
<ul style="list-style-type: none">· 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
<i>Sole Developer</i>	
<ul style="list-style-type: none">· 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
<i>Contributor</i>	
<ul style="list-style-type: none">· 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, Matplotlib, Flask, ASP.NET, jQuery
Theory: Algorithm design and analysis, statistical analysis and data visualization
Language: English (Fluent), French (Beginner), Cantonese and Mandarin (Native)