

# Yunqi Zhang

Mobile: (858) - 900 - 7321  
Email: yqzhang@ucsd.edu

Address: 7770 Regents Road #113-220, San Diego, CA 92122  
Website: <http://www.yunqizhang.org>

## EDUCATION

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|---|--------------------------------|
| <b>University of California, San Diego</b>                  | Sep. 2012 - Expected Dec. 2013 |
| - Master of Science in Computer Science                     |                                |
| <b>Beijing Institute of Technology</b>                      | Sep. 2008 - Jun. 2012          |
| - Bachelor of Science in Software Engineering (GPA 3.9/4.0) |                                |

## EXPERIENCE

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|---|-----------------------|
| <b>University of California, San Diego</b>  | Sep. 2012 - Present   |
| <i>Research Assistant</i>   |                       |
| - Currently focusing on software technique to increase large scale distributed system performance and energy efficiency   |                       |
| - Quantitatively analyzing the performance degradation and energy efficiency of co-location on simultaneous multithreading CPUs   |                       |
| <b>IBM China Development Lab</b>  | Nov. 2011 - Jan. 2012 |
| <i>Research Intern</i>  |                       |
| - Implemented the multi-tenancy framework and pattern definition for IBM Business Process Manager based on LDAP in the WebSphere Application Server                         |                       |
| - Constructed Business Process Manager topology pattern for IBM Workload Deployer   |                       |
| <b>Institute of Computing Technology, Chinese Academy of Sciences</b>   | Jul. 2011 - Nov. 2011 |
| <i>Visiting Student and Research Intern</i>   |                       |
| - Designed and developed a NoSQL database based on HBase, supporting multi-column index, statistical computing on the server side, access control and other major functions |                       |
| - Used by the largest online shopping platform in Asia-Taobao, to process the data of more than 880 million merchandises  |                       |
| - Achieved 7 times higher throughput and 57.4% decrease in response delay   |                       |

## SELECTED PROJECTS

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| <b>Computer Games for Dots and Boxes, Surakarta</b>  | Jan. 2011 - Sep. 2011 |
| - Developed 2 computer games engines which used self-learning UCT based on external memory   |                       |
| <b>Protection System for Web Server</b>  | Jan. 2010 - Sep. 2010 |
| - Developed a protection system for web server, innovatively used dynamic comparison of query parse tree structures to protect servers from SQL injection                                |                       |
| <b>Interpreter for C-like Programming Language</b>   | Jul. 2010 - Sep. 2010 |
| - Self-defined an advanced programming language, developed a corresponding interpreter to provide lexical analysis, syntactic analysis, semantic analysis and execution runtime features |                       |

## SKILLS

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Proficient in C, Java. Familiar with C++, Assembly, Python, AJAX, Bash, SQL

## PUBLICATIONS

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Yunqi Zhang, Zhaotong Pan and Xiaofan Zhang. *Study of the Great Pacific Garbage Patch Based on Markov Process*. International Conference on Applied and Engineering Mathematics (AEM), 2011.

Jingqiu Wang, Xuan Liu and Yunqi Zhang. *Daylighting System Based on DSP and FPGA of New Intelligent Building*. International Conference on Computer Application and System Modeling (ICCASM), 2011.

## HONORS AND AWARDS

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Meritorious Winner of the Interdisciplinary Contest in Modeling

1<sup>st</sup> Place of the National Information Security Competition

1<sup>st</sup> Place in the National Computer Games Contest of Surakarta

2<sup>nd</sup> Place in the National Computer Games Contest of Dots and Boxes

2<sup>nd</sup> Prize of the National Service Outsourcing and Innovation Contest

National Scholarship

Chinese Academy of Sciences Scholarship

Microsoft Scholarship