

KEWEN WANG

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<http://wangkewen.github.io>

EDUCATION

University of Connecticut Ph.D. in Computer Science, GPA: 4.0	2014 -2019
Georgia State University Ph.D. in Computer Science, GPA: 3.8	2013 -2014
Beihang University M.S. in Computer Science, GPA: 3.3	2010 -2013
Beijing Information Science and Technology University B.S. in Computer Science, GPA: 3.5	2005 -2009

TECHNICAL SKILLS

Computer Languages	Java, Linux Shell, C, Python
Open Source	Apache Spark, Apache Hadoop, Xen, Apache Tomcat, BTrace, Ganglia
Web Development	JSP, Ajax, CSS, JavaScript, jQuery

CODING COMPETITION

Google Code Jam 2017 Qualification Round Rank#1483/25k, Round 1C Rank#1664/3775

ACADEMIC SERVICE

Reviewer of IEEE Transactions on Parallel and Distributed Systems (TPDS).
Reviewer of ACM Transactions on Architecture and Code Optimization (TACO).

RESEARCH EXPERIENCE

Interference Modeling of Apache Spark Jobs <i>Research Assistant</i>	Aug 2015 - Nov 2016 <i>University of Connecticut</i>
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- Integrate resources consumption and tasks events profiles for Spark Jobs run in Xen virtual machines.
- Build an inference model to predict the execution time of multiple Spark jobs executed in parallel.
- Implement Spark jobs scheduler to optimize the total execution time.

Performance Prediction for Apache Spark Jobs <i>Research Assistant</i>	Oct 2014 - May 2015 <i>University of Connecticut</i>
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- Parse JSON format events logs of Apache Spark jobs, and analyze tasks execution pattern.
- Establish an analytical performance model to predict time, I/O overhead and memory consumption.

Learning environment for Smart Grid security <i>Research Assistant</i>	Aug 2013 - Feb 2014 <i>Georgia State University</i>
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- Implement an online tool using JSP and jQuery to schedule Smart Grid emulator for courses design.

Optimizing Hadoop MapReduce <i>Research Assistant</i>	Nov 2011 - Dec 2012 <i>Beihang University</i>
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- Apply BTrace to trace Hadoop MapReduce job functions, monitor resources consumption using Ganglia.
- Construct Hadoop performance model for execution time prediction.
- Design heuristic search algorithm to find optimal configuration for MapReduce jobs.

WORK EXPERIENCE

Full Stack Developer

Nov 2011 - Jan 2012

Science and Technology Research Institute of Beihang University

- Build website on the framework Struts+Spring+Hibernate, and load project archives into MySQL.
- Implement information retrieval and display using JSP, JavaScript and Ajax.

Software Engineer Intern

Mar 2010 - May 2010

NDtech Inc. Beijing, China

- Analyze ANTLR (an open source parser generator) to learn Script#.
- Apply Script# to write JavaScript by compiling C#.

Test Engineer Intern

Oct 2008 - Nov 2008

National Computer Products Quality Supervising Test Center, Beijing, China

- Apply black-box testing to test an information management software.

AWARDS

Predoctoral Fellowship

2017

Computer Science and Engineering department at University of Connecticut

Third Class Scholarship

2011

Beihang University

Academic Scholarship

2008

Beijing Information Science and Technology University

Municipal 2nd Prize of 21st National Middle School Students Physics Competition

2004

City of Xianning, China

PUBLICATIONS

1. Modeling Interference for Apache Spark Jobs. Wang, Kewen, Mohammad Maifi Hasan Khan, Nhan Nguyen, and Swapna Gokhale. IEEE 9th International Conference on Cloud Computing (CLOUD), 2016.
2. CSMiner: An Automated Tool for Analyzing Changes in Configuration Settings across Multiple Versions of Large Scale Cloud Software. Nguyen, Nhan, Mohammad Maifi Hasan Khan, and Kewen Wang. IEEE 9th International Conference on Cloud Computing (CLOUD), 2016.
3. Performance Prediction for Apache spark Platform. Wang, Kewen, Mohammad Maifi Hasan Khan. IEEE 17th International Conference on High Performance and Communications (HPCC), 2015.
4. Integrated Learning Environment for Smart Grid Security. Wang, Kewen, Yi Pan, Wen-Zhan Song, Weichao Wang, and Le Xie. The Fourth International Conference on Advanced Communications and Computation (INFOCOMP), 2014.
5. PredatorAn experience guided configuration optimizer for Hadoop MapReduce. Wang, Kewen, Xuelian Lin, and Wenzhong Tang. IEEE 4th International Conference on Cloud Computing Technology and Science (CloudCom), 2012.