KEWEN WANG

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EDUCATION

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

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 PROJECTS

Interference Modeling of Apache Spark Jobs Aug 2015 - Nov 2016
Research Assistant *University of Connecticut*

· Integrated resource consumption and task event profiles for Spark jobs run in Xen virtual machines.
· Built an interference model to predict the execution time of multiple Spark jobs executed in parallel.
· Implemented an interference aware job scheduling algorithm to reduce the total execution time.

Performance Prediction for Apache Spark Jobs Oct 2014 - May 2015
Research Assistant *University of Connecticut*

· Parsed JSON format event logs of Apache Spark jobs, and analyzed task execution pattern.
· Established an analytical performance model to predict time, I/O overhead and memory consumption.

Learning Environment for Smart Grid Security Aug 2013 - Feb 2014
Research Assistant *Georgia State University*

· Implemented an online tool using JSP and jQuery to schedule Smart Grid emulator for course design.

Optimizing Hadoop MapReduce Nov 2011 - Dec 2012
Research Assistant *Beihang University*

· Applied BTrace to trace MapReduce job functions, monitored resource consumption using Ganglia.
· Constructed Hadoop performance model for execution time prediction.
· Designed heuristic search algorithm to find approximately optimal configuration for MapReduce jobs.

WORK EXPERIENCE

Full Stack Developer Nov 2011 - Jan 2012
Science and Technology Research Institute of Beihang University

· Built website on the framework Struts+Spring+Hibernate, and loaded project archives into MySQL.
· Implemented information retrieval and display using JSP, JavaScript and Ajax.

Software Engineer Intern Mar 2010 - May 2010
NDtech Inc. Beijing, China

· Analyzed ANTLR (an open source parser generator) to learn C# parser and Script#.
· Applied Script# to write JavaScript by compiling C#.

Test Engineer Intern Oct 2008 - Nov 2008
National Computer Products Quality Supervising Test Center, Beijing, China

· Applied 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. Design and implementation of an analytical framework for interference aware job scheduling on Apache Spark platform. Wang, Kewen, Mohammad Maifi Hasan Khan, Nhan Nguyen, and Swapna Gokhale. Cluster Computing (2017).

2. 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.

3. 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.

4. Performance Prediction for Apache Spark Platform. Wang, Kewen, Mohammad Maifi Hasan Khan. IEEE 17th International Conference on High Performance and Communications (HPCC), 2015.

5. 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.

6. Predator - An 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.