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. Program 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 University of Connecticut

Research Assistant

- · 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

Research Assistant

Nov 2011 - Dec 2012 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 NDtech Inc. Beijing, China

Mar 2010 - May 2010

- · 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.
- 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.