KEWEN WANG

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http://wangkewen.github.io

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 EXPERIENCE

Interference Modeling of Apache Spark Jobs

Aug 2015 - Nov 2016

Research Assistant

University of Connecticut

- · Collect resources usage information (Dstat) for Apache Spark Jobs running in Xen virtual machines.
- · Build an inference model to predict the execution time of multiple Spark jobs executed in parallel.
- · Schedule Spark jobs submitted at different time to optimize the total execution time.

Performance Prediction for Apache Spark Jobs

Oct 2014 - May 2015

Research Assistant University of Connecticut

- · Analyze execution logs of Apache Spark jobs running in cluster of 13 nodes.
- · Establish an analytical performance model to predict CPU, I/O and memory cost for Spark jobs.

Learning environment for Smart Grid security

Aug 2013 - Feb 2014

Research Assistant

Georgia State University

· Design and implement a website for user management to access Smart Grid emulator for courses design.

Optimizing Hadoop MapReduce

Research Assistant

Nov 2011 - Dec 2012 Beihang University

- · Apply BTrace to collect Hadoop MapReduce job profile, monitor resources consumption using Ganglia.
- · Construct Hadoop performance model for execution time prediction.
- · Design heuristic search algorithm to find optimal configuration for MapReduce job.

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.

Research Intern

Mar 2010 - May 2010

NDtech Inc. Beijing, China

- · Analyze ANTLR (ANother Tool for Language Recognition).
- · Participate in the research of Script#, and apply Script# to write JavaScript using C#.

Test Engineering 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.