KEWEN WANG

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Address: Storrs Mansfield, CT 06269

EDUCATION

University of Connecticut

Ph.D. in Computer Science, GPA: 4.0

Beihang University

M.S. in Computer Science, GPA: 3.3

Beijing Information Science and Technology University

2014 -2019

2019

2019

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B.S. in Computer Science, GPA: 3.5

TECHNICAL SKILLS

Computer LanguagesJava, Python, Linux Shell, COpen SourceApache Spark, Apache Hadoop, Xen, Apache Tomcat, BTrace, GangliaWeb DevelopmentJSP, Ajax, CSS, JavaScript, jQuery

CODING COMPETITION

Google Code Jam 2017 Qualification Round Rank#1483/25k, Round 1C Rank#1664/3775 Google Kickstart 2018 Round B Rank #122/753

ACADEMIC SERVICE

Reviewer of IEEE Transactions on Parallel and Distributed Systems (TPDS). Reviewer of ACM Transactions on Architecture and Code Optimization (TACO). Reviewer of Journal of Experimental and Theoretical Artificial Intelligence (JETAI).

RESEARCH PROJECTS

Research Assistant

Interference Modeling of Apache Spark Jobs

Aug 2015 - Nov 2016 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 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

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

Research Intern

May 2018 - Aug 2018

HashiCorp. San Francisco, CA

· Built performance model for Consul system, explored and improved system performance.

Full Stack Developer

Nov 2011 - Jan 2012

Institute of Science and Technology at 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#.

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.