

Le Xu

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Education

- 08/2015–Present University of Illinois at Urbana-Champaign
Ph.D. in Computer Science (advised by Indranil Gupta)
GPA: 3.83
- 08/2013–05/2015 University of Illinois at Urbana-Champaign
M.S in Computer Science (advised by Indranil Gupta)
GPA: 3.84
- 08/2009–05/2013 University of Illinois at Urbana-Champaign
B.S in Math and Computer Science)
GPA: 3.48

Research Interest

Distributed Systems; Cloud Computing; Resource Management; Adaptivity; System Elasticity; Performance Analysis

Selected Projects

- 05/2017 Improving system coordination and resource management across layers
- 09/2015 Multi-tenant in Distributed Stream Processing Systems
Enabling fairness and adaptive elasticity among multi-tenant real time processing applications
- 09/2015 Optimal Resource Scheduling for Interactive Analysis Systems
Improving replication strategies for real-time time-series data store to optimize resource utilization

Publication

- 08/2017 Mijung Kim, Jun Li, Haris Volos, Manish Marwah, Alexander Ulanov, Kimberly Keeton, Lucy Cherkasova, Le Xu, Pradeep Fernando. "Sparkle: Optimizing Spark for Large Memory Machines and Analytics" *2017 ACM Symposium on Cloud Computing (poster track)*. (2017).
- 03/2017 Mainak Ghosh, Le Xu, Xiaoyao Qian, Thomas Kao, Indranil Gupta and Himanshu Gupta. "Getafix: Workload-aware distributed interactive analytics." *Technical Report*. (2017).
- 04/2016 Xu, Le, Boyang Peng, and Indranil Gupta. "Stela: Enabling Stream Processing Systems to Scale-in and Scale-out On-demand." *IEEE International Conference on Cloud Engineering (IC2E)*. 2016.
- 05/2015 Xu, Le. "Stela: on-demand elasticity in distributed data stream processing systems." *Master Thesis*. (2015).
- 03/2015 Wang, Wenting, Le Xu, and Indranil Gupta. "Scale Up vs. Scale Out in Cloud Storage and Graph Processing Systems." *2015 IEEE International Conference on Cloud Engineering (IC2E)*. IEEE, 2015.
- 09/2016 Xu, Le. "VStorm: Video Traffic Management By Distributed Data Stream Processing Systems." *Technical Report*. (2016).

Reviews

- 10/2016 ACM Transactions on Autonomous and Adaptive Systems

Teaching Experience

- 01/2015, 01/2016 Cloud Computing Concepts (Coursera) - Teaching Assistant
- 01/2016 Advanced Distributed Systems - Teaching Assistant
- 08/2014, 01/2015 Distributed System - Teaching Assistant

Industrial Experience

- 05/2017-08/2017 Microsoft (Cloud and Information Services Lab)

Building a control layer inside of a real-time stream processing engine for flexible and efficient online monitoring and re-configuration

- 05/2016-08/2016 Hewlett-Packard Labs (Software Analytics Group)
Conducting Spark performance analysis for micro-benchmark and machine learning applications
- 05/2015-08/2015 Salesforce Inc. (ServiceCloud Performance)
Implemented Jmeter Tests suites for ServiceCloud application platform with synthetic data set
- 05/2014-08/2014 Yahoo! Sunnyvale (Cloud Services and Organization)
Implemented a server log-processing framework for server log retrieval and analysis. (Pig, Hive & Oozie)

Awards and Honors

- 2016 David J. Kuck Outstanding M.S. Thesis Award
- 2015 Grace Hopper Celebration Travel Fund
- 2015 Conference Travel Grant
- 2015 Outstanding Teaching Assistant

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