Yaliang Wang

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Website:

Education

o M.S. Computer Science, Northwestern University. 3.78/4.00. o B.E. Automation(Control), Zhejiang University. 3.67/4.00.

2014 - present

2009 - 2013

o Java, Scala, Python, Puppet, Aurora, Javascript, C++, MATLAB, PHP, Linux, Latex, Academic Writing.

Experience _

Software Engineer, Interactive Query, Twitter Inc.

October, 2016 - present

- o Monitoring, analyzing, optimizing and developing Presto on top of the infrastructure at Twitter to power interactive queries on petabyte scale analytics
- o Leaded and shepherded multiple feature supports in Presto for Twitter's unique demands.
- o Optimizing the integration of Data Access Layer(DAL), a data discovery and consumption service at Twitter, with Presto.

Technical Assistant, Kellogg School of Management, Northwestern University.

November, 2015 - July, 2016

- o Built a software with flexible configuration for Evaluative Movement Assessment(EMA) experiments on PsychoPy.
- o Designed and implemented structured database, RESTful data service API and front-end of a web platform for building and managing online EMA experiments.

Projects

Lead, LZO Thrift, a widely used data format at Twitter, read support in Presto. Github, Report.

February, 2017 - Augest, 2017

- o Leaded Thrift data read support in Presto. The implementation features splittable LZO support, a feature to improve the processing parallelism, and selective deserialization, a dynamic low-latency optimization to save computing cost for LZO Thrift data files in presto-hive
- o Conducted technical design, feature implementation and performance evaluation.

Mentor, Intern Project: Rosette Kafka connector in Presto. Github.

July, 2017 - Augest, 2017

- o Adapted open-source presto-kafka to Rosette Kafka, a Twitter-customized Kafka compatible to Kafka o.7.
- o Featured time-stamp based segments filtering to save read bandwidth in Kafka cluster.

Major Contributor, Plan and conduct primary performance reports of Presto as a service.

Octorber, 2016 - December, 2016

- o Benchmark the usability and performance of Presto service for typical use cases from internal customers.
- o Discovered an issue exceeding ephemeral port limit and patched with pooled transport factory in Presto which immediately increased the query success rate from 80% to 95%.

Member, Datasets meta-data integration for Presto.

December, 2016 - Present

- Re-factored the existing event-based synchronization service, which listens meta-data event and updates meta-info in the Hive metastore, to be more testable and more maintainable.
- Collaborating with Analytics Data Pipeline team to test and review their Hive Metastore API compatible service, which intend to replace native Hive metastore currently used as the meta-data source for Presto service.

Researcher, Master Thesis, Harnessing Crowdsourcing for Particle Detection in IV Bags. Github

December, 2014 - July, 2016

Built a crowd-sourcing mobile application to label the massive patches from captured image with effective data confidence calculation model.

Researcher, Bachelor Thesis, Balance Maintenance for Humanoid Robots Subjected to External Disturbance. Publications, Demo. December, 2012 - June, 2014 o First author of the paper published at ICRA 2014, top 1 international conference in robotics.

Awards

- o #grow and #berigorous shout outs from colleagues, Twitter Inc., 2016-2017.
- o Best Student Application Paper Award, IFAC ICONS 2013, 2013.
- o Zhejiang University 2013 Session Excellent Bachelor Thesis Award, Zhejiang University, 2013.

Publications

- o Yaliang Wang, Rong Xiong, Qiuguo Zhu, and Jian Chu, "Compliance Control for Standing Maintenance of Humanoid Robots under Unknown External Disturbances", 2014 IEEE International Conference on Robotics and Automation, pp. 2297-2304 Hong Kong, China, May 31 - June 5, 2014.
- Yaliang Wang, Qiuguo Zhu, Rong Xiong, and Jian Chu, "Standing Balance Control for Position Control-Based Humanoid Robot", 3rd IFAC International Conference on Intelligent Control and Automation Science (IFAC ICONS 2013), pp.429-436, Chengdu, China, September 2-4, 2013.
- Chao Li, Rong Xiong, Qiuguo Zhu, Jun Wu, Yaliang Wang, Yiming Huang, "Push recovery for the standing under-actuated bipedal robot using the hip strategy", Journal of Zhejiang University-SCIENCE, 2014.