Jiajun Yao

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WORK EXPERIENCE

LinkedIn Distributed Graph Team   February 2016 - Present
Staff Software Engineer   Sunnyvale, CA
- Work on the next generation graph database LIquid that supports the entire LinkedIn economic graph with millions of QPS and sub-second latency:
  https://engineering.linkedin.com/blog/2020/liquid-the-soul-of-a-new-graph-database-part-1
- Work on the entire stack of the system: storage, query evaluation and frontend
- Leading a group of two people on the traffic migration project: migrate all client traffic to the frontend API seemlessly
- Working on the declarative query evaluation project: distributed, dynamic and declarative query evaluation engine using Prolog
- Led a group of four people on the frontend API project: launched the only external RESTful API used by all clients with ACL, quota and monitoring features
- Led the third-party graph project: launched the first third-party LIquid instance through collaboration with a cross-org client team
- Led the imperative query evaluation project: served 100% LIquid traffic with an imperative query language and an imperative query evaluation engine
- Designed and developed index parallel optimization: optimize running database indexes with no downtime

LinkedIn Distributed Graph Team   May 2015 - August 2015
Software Engineering Intern   Mountain View, CA
- Designed and developed a dark canary testing framework

Qiduo Information Technology Co., Ltd.   July 2012 - July 2014
Software Engineer, Founding member   Beijing, P.R. China
- Full stack developer
- Developed a cloud-based new email checking and notification system that served >100K users
- Developed an Android email app LightMail that supports POP3 and IMAP

RESEARCH EXPERIENCE

Nanjing University   May 2011 - May 2012
Undergraduate Research Assistant   Nanjing, P.R. China
- Applied data mining related techniques to solve the user cold start problem for e-commerce websites using search keywords

EDUCATION

Carnegie Mellon University, Pittsburgh, PA   December 2015
School of Computer Science, Master of Computational Data Science   GPA 4.03/4.0
- Took classes in compiler, operating system, distributed system, network, storage
- Designed and developed a kernel that supports paging, multitasking and system calls
- Designed and developed a compiler for the L4 programming language with various optimizations: CSE, function inlining, constant folding, constant propagation, dead code elimination, etc

Nanjing University, Nanjing, P.R. China   June 2013
School of Software Engineering, Bachelor of Engineering   GPA 90.2/100

SKILLS

Programming Languages:	Java, C++, Python, PHP, JavaScript
Operating System:	Linux
Big Data Technology:	Hadoop, Spark, Kafka, Samza, Pig
Mobile Technology:	Android
Web Technology:	Netty, Nginx, Twisted