Jiajun Yao

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA — December 2015
School of Computer Science, Master of Computational Data Science — GPA 4.03/4.0

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

EXPERIENCE

LinkedIn Distributed Graph Team — February 2016 - Present
Software Engineer — Sunnyvale, CA
- Develop and operate LinkedIn graph database

LinkedIn Distributed Graph Team — May 2015 - August 2015
Software Engineering Intern — Mountain View, CA
- Designed and developed an A/B testing framework for the graph database

Qiduo Information Technology Co., Ltd. — July 2013 - July 2014
Software Engineer, Earliest member — Beijing, P.R. China
- A startup providing mobile applications for enterprise
- Responsible for server-side development for all mobile applications
- Developed server-side software using PHP and Python that served >100K users
- Programmed the UI layer of an Android email client called LightMail

Qiduo Information Technology Co., Ltd. — July 2012 - July 2013
Software Engineering Intern, Earliest member — Nanjing, P.R. China
- Created a cloud-based new mail checking and notification system
- Built an enterprise social website

SELECTED PROJECTS

L4 Compiler — August 2015 - December 2015
Team Member (2 developers) — Carnegie Mellon University
- Designed and implemented a compiler for the programming language L4
- Implemented some compiler optimizations: peephole, CSE, function inlining, constant folding, constant propagation, copy propagation and dead code elimination
- Implemented a mark-and-sweep garbage collector for L4

Kernel — February 2015 - April 2015
Team Member (2 developers) — Carnegie Mellon University
- A Unix-like kernel that supports paging, preemptive multitasking and system calls
- Designed and implemented a scheduler, drivers and synchronization primitives
- Learned a lot about synchronization, deadlock, parallelism, process, thread and virtual memory
- Got A in 15-410

MapReduce Framework — October 2014 - November 2014
Team Member (2 developers) — Carnegie Mellon University
- A MapReduce framework that is distributed and fault-tolerant
- Investigated the design and implementation of Hadoop and HDFS
- Architected and developed a distributed file system like HDFS
- Architected and developed a MapReduce facility like Hadoop

Congestion Control with BitTorrent — October 2014 - November 2014
Team Member (2 developers) — Carnegie Mellon University
- A BitTorrent-like file transfer application on top of UDP
- Architected and developed the server-side of the application
- Implemented congestion control mechanisms: slow start, AIMD and fast retransmission

SKILLS

Languages:	Java, Python, PHP, C, C++, JavaScript
Big Data Technology:	Hadoop, Spark, Hive, Shark, Impala, AWS
Mobile Technology:	Android
Web Technology:	Nginx, Twisted, Yii, jQuery