Jiajun Yao
1 (412) 951-0068
jeromeyjj@gmail.com
http://blog.jjyao.me/
https://www.linkedin.com/in/jjyao/

EDUCATION

Carnegie Mellon University, Pittsburgh, PA   December 2015
School of Computer Science, Master of Computational Data Science   GPA 4.07/4.0

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

EXPERIENCE

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 Engineer Intern, Earliest member   Nanjing, P.R. China
- Created a cloud-based new mail checking and notification system
- Built an enterprise social website

SELECTED PROJECTS

YARN Gang Scheduler   November 2014 - December 2014
Team Member (2 developers)   Carnegie Mellon University, Pittsburgh, PA
- A new heterogeneity-aware gang scheduler for the Hadoop YARN framework
- Implemented scheduling policies: FIFO, SJF and delayed scheduling
- Minimized the mean completion time of MPI and GPU jobs

MapReduce Framework   October 2014 - November 2014
Team Member (2 developers)   Carnegie Mellon University, Pittsburgh, PA
- 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, Pittsburgh, PA
- 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

HTTPS Server   September 2014 - October 2014
Individual Developer   Carnegie Mellon University, Pittsburgh, PA
- A select()-based HTTPS1.1 server with CGI support
- Architected and developed the server using C
- Implemented HEAD, GET, POST and CGI
- Implemented a HTTP parser using Flex

RESEARCH EXPERIENCE

Recommender System for E-commerce Websites   May 2011 - May 2012
State Key Laboratory for Novel Software Technology   Nanjing University, P.R. China
- Undergraduate innovation project of Nanjing University
- Studied data mining and applied related techniques to the "user cold start" problem
- Gained basic research abilities including paper reading and oral reporting skills

SKILLS

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