Leiyu Zhao

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EDUCATION

Carnegie Mellon University, School of Computer Science

Aug. 2016 to Dec. 2017

Master of Computational Data Science (MCDS, formerly VLIS) - Systems Track; Advisor: Garth Gibson

Cumulative GPA: 4.11/4.33; Core Courses: Operating Systems, Cloud Computing, Distributed Systems, Storage Systems, Parallel Programming, Advanced Cloud Computing, Database Systems

Tsinghua University

Aug. 2012 to July 2016

Bachelor of Engineering (B.Eng.), Computer Software Engineering

Major GPA: 97/100 (4.00/4.00), ranking 1/63; Cumulative GPA: 94/100 (3.94/4.00), ranking 2/63

EXPERIENCE

Facebook, Core Systems Group, Shard Manager Team

May. 2017 to Aug. 2017

Software Engineer Intern, C++11/Sharding-as-a-Service/Zookeeper/Thrift/Python

Design & implement *Storm Policy* for *Shard Manager*, to provide better ways of handling massive server failure (storm) in terms of finer action semantics, higher shards availability, shorter recovery time and better fault tolerance insights Applied in prod tier and benefits 1,000+ services at Facebook across 8 datacenter regions

Microsoft, Operating Systems Group China (OSGC, ARD)

Mar. 2015 to July 2015

Software Developer Intern, C#/WPF/.NET/UWP

Develop built-in universal apps for Windows 10 Chinese Market Release, like Nearby Numbers and Microsoft Couplet

Tsinghua, Cloud Computing Group, Institute of Trustworthy Networks and SystemsJune 2015 to July 2016

Research Assistant, Golang/Python/OpenStack/HDFS/Ceph

Deploy OpenStack to back up THU Cloud Computing Platform; Design & implemented H2Cloud, a cloud storage service

SELECTED PROJECTS

CloudFS (Hybrid Storage System)

Oct. 2016 to Dec. 2016

FUSE-based filesystem on Linux to store files in hybrid mode & utilize the speed of SSD and high capacity of cloud storage Hidden complexity for applications; Full support for deduplication, local caching, snapshot & instant recovery

Accel.js Mar. 2017 to Present

A package helping developer using simple primitives to run Node.js programs on multicores and multi-nodes Win 2nd prize (out of 110 projects) in CMU 15-418 Parallelism Competition (by judges from Intel and NVIDIA)

H2Cloud Sept. 2015 to Apr. 2016

Cloud storage system supporting full-fledged filesystem based on a single object storage cloud

Faster than OpenStack Swift in filesystem operations, while more reliable than Dropbox in filesystem storage

Zijing Zhi Sheng (the Sound of Tsinghua)

Oct. 2014 to Jan. 2015

A web app to offer ticket booking service to all the staff at Tsinghua, capable of handling 3K+ concurrent user requests More than 21,000 users. Sell tickets for tens of 2000-participant events (Up to Oct. 2015)

Graphical User Interface for UNIX

Oct. 2014 to Feb. 2015

A graphic card driver, a USB-mouse driver and a Windows-like GUI for UNIX kernel (Unix v6) Set of syscalls for GUI manipulation and interaction

Js2Jv (ANTLR-based Javascript Interpreter)

May 2015 to July 2015

Full-featured Javascript runtime in JVM supporting asynchronous functions, closure, etc. with ECMAScript 3 analyzer

SKILLS

Programming Languages: *Proficient in* C/Golang/C++11/Javascript, *Familiar with* Java/Python/C#/Haskell/Asm-x86; **Algorithms & Data Structures**; **Cloud Computing:** AWS/OpenStack; **Distributed/Parallel:** MapReduce/Spark/CUDA; **Web Development:** HTML/CSS/Nginx/ExpressJS/Django; **Database:** MySQL/MongoDB/Apache HBase;

SELECTED AWARDS

Excellent Works Award, 2014 Intel Mobile Computing Innovation Contest

Oct. 2014

Designing a wearable computing device, using infrared camera to recognize gestures for interaction

Bronze Medal in National Olympiad in Informatics

Aug. 2011

Top competition in algorithms & data structure in China

Gold Medal in 5th Asia-Pacific Informatics Olympiad

May 2011

International competition in algorithms & data structure