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
Relevant Courses: Intro. to Computer Systems, Cloud Computing, Distributed Systems, Storage 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, Inc.　　　　　　　*May. 2017 to Aug. 2017*
Software Engineer Intern (incoming)

Microsoft Operating Systems Group China (OSGC, ARD)　　　　　　　*Mar. 2015 to July 2015*
Software Developer Intern, C#/WPF/.NET/UWP
Developed built-in universal apps for Windows 10 Chinese Market Release, like *Nearby Numbers*
Developed non-built-in universal apps for Windows 10, like *Microsoft How-old* and *Microsoft Couplet*

Cloud Computing Group, Institute of Trustworthy Networks and Systems, Tsinghua　　*June 2015 to July 2016*
Research Assistant, Golang/Python/OpenStack/HDFS/Ceph
Deployed OpenStack Keystone, Swift and Nova on cluster to back up THU Cloud Computing Platform
Designed & implemented H2Cloud to provide cloud storage service

PROJECTS (SELECTED)

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

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

Gurgling (Web Framework for Golang)　　　　　　　*Oct. 2015 to Present*
Light and configurable web framework with APIs similar to ExpressJS
Full support for HTTP1.1, HTTPS, Websocket, Cookie, Session, *etc.*

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
Set of syscalls for GUI manipulation and interaction

Television Audience Analytics Web Service　　　　　　　*Oct. 2015 to Jan. 2016*
Web app. on Apache Spark and Flask to provide real-time, fine-grained analytics on ~1 billion television audience records

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/Javascript/Golang, *Familiar with* Java/Python/C#/C++/Haskell/Asm-x86;
Algorithms & Data Structures; **Cloud Computing:** AWS/OpenStack; **Distributed Compute:** MapReduce/Apache Spark;
Web Development: HTML/CSS/Bootstrap/Nginx/ExpressJS/Flask; **Database:** MySQL/MongoDB/Apache HBase;

AWARDS (SELECTED)

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