

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

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

Submitted the paper *Maintaining Filesystem in an Object Storage Cloud* to IEEE INFOCOM'17 (currently pending)

PROJECTS (SELECTED)

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

Gurpling (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 application using Apache Spark, HDFS and Flask to provide real-time, fine-grained analytics on television audience

Based on ~1 billion pieces of system logging of all the television sets in Tianjin Province, China

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/C#/C++/Python/Haskell/Asm;

Algorithms & Data Structures; Cloud Computing: OpenStack/AWS; **Distributed Systems:** MapReduce/Apache Spark;

Web Development: HTML/CSS/Bootstrap/Nginx/ExpressJS/Flask/ASP.NET; **Database:** MySQL/MongoDB/SQL Server;

PUBLICATION

An Implementation of Distributed Filesystem Index and Collaborative Editing

Oct. 2015

Leiyu Zhao, Zhenhua Li, He Xiao and Tong Zhu, 2016, Patent# CN105404653A

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