

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

Tsinghua University

Aug. 2012 to July 2016

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

Cumulative GPA: **94**/100 (**3.94**/4.00), ranking **2**/63

Major GPA: **97**/100 (**4.00**/4.00), ranking **1**/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

Developed THUCloud Storage experimental platform

Designed & implemented H2Cloud to host filesystem in OpenStack Swift

Submitted a paper 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

Gurgling (Web Framework for Golang)

Oct. 2015 to Present

Light and configurable web framework with API 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 Wechat app to offer ticket booking service to all the stuff 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)

Graph 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

PUBLICATION

An Implementation of Distributed Filesystem Index and Collaborative Editing

Oct. 2015

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

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;

HONORS & AWARDS (SELECTED)

Outstanding Graduate Student Award for 2016, Beijing

July 2016

Top 2% among all the graduate students in Beijing Province

Excellent Works Award, 2014 Intel Mobile Computing Innovation Contest

Oct. 2014

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

“12.9” Scholarship, Tsinghua University

Oct. 2015

Top 1% among 3,500 students in the grade of 2016

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