

Resume - Leiyu ZHAO

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EDUCATION

Carnegie Mellon University

Master of Computational Data Science (MCDS, formerly VLIS) - Systems Track, 2016 - 2017
Language Technologies Institute, School of Computer Science

Tsinghua University

Bachelor of Engineering (B.Eng.), Computer Software Engineering, 2012 - 2016

- GPA: **94/100 (3.94/4.00)**, ranking **2/63**
- GPA in Jr. & Sr.: **97/100 (4.00/4.00)**, ranking **1/63**

INDUSTRY EXPERIENCE

Microsoft Operating Systems Group China (OSGC, ARD)

Software Developer Intern, March 2015 – July 2015

- 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*

RESEARCH EXPERIENCE

Institute of Trustworthy Networks and Systems, Tsinghua University

Research Assistant at Cloud Computing Group, June 2015 – July 2016

- Assisted developing THUCloud Storage experimental platform
- Designed H2Cloud to host file system in a single object storage cloud like OpenStack Swift

PUBLICATIONS

An Implementation of Distributed Filesystem Index and Collaborative Editing

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

HONORS & AWARDS

Outstanding Graduate Student Award for 2016, Beijing

July 2016, top 2% among all the graduate students in Beijing Province

Outstanding Graduate Student Award for 2016, Tsinghua University

July 2016, top 5% among all the graduate students at Tsinghua University

Excellent Works Award, 2014 Intel Mobile Computing Innovation Contest

October 2014, held in Shanghai, China

"12.9" Scholarship, Tsinghua University

October 2015, highest honor in the grade

Scholarship for Academic Excellence, Tsinghua University

December 2014, Sponsored by Beijing Lexiaoyao Company

Scholarship for Overall Excellence, Tsinghua University

December 2013, Sponsored by Mr.Zhang Mingwei

Bronze Medal in National Olympiad in Informatics

August 2011, held in Changchun, China

Gold Medal in 5th Asia-Pacific Informatics Olympiad

May 2011, held in Beijing, China

SKILLS

- **Coding Languages & Debugging** (C/C++/Javascript/Golang/Python/Haskell/Java/C#/Asm/Pascal)
- **Algorithms & Data Structures**
- **Cloud Computing** (OpenStack/AWS)
- **Distributed Systems** (MapReduce/Apache Spark)
- **Web Development** (Frontend/Backend)

PERSONAL PROJECTS

Gurgling (Web Framework for Golang)

Developed from October 2015 to Present

- Light and configurable web framework with API similar to ExpressJS
- Full support for HTTP1.1, HTTPS, Websocket, etc.; Remains updating

Zijing Zhi Sheng (the Sound of Tsinghua)

Developed from October 2014 to January 2015

- Interaction platform based on Wechat to offer ticket booking service to all the stuff at Tsinghua
- More than 21,000 users. Distributed tickets to tens of 2000-participant events (Up to Oct. 2015)

Rousey Wristband Mouse

Developed from March 2014 to June 2016

- Wristband-like device using infrared camera to recognize gestures and provide an invisible mouse
- Combines accuracy with portability, suitable to be input device for ultrabook and tablet

Graph User Interface for UNIX

Developed from October 2014 to February 2015

- Graphic card driver, a USB-mouse driver and a Windows-like GUI for UNIX kernel
- Set of syscalls for GUI manipulation and interaction

Js2Jv (Javascript-to-Java Translator, Javascript Interpreter)

Developed from May 2015 to July 2015

- Full-featured runtime for Javascript to translate JS codes directly into Java
- Works as a simple JS interpreter assembled with ANTLR

Wireless Sensor Network Based on ZigBee

Developed from October 2014 to December 2015

- An ad-hoc cluster consisting of distributed nodes to collect data from distributed sensors for analysis
- Data loss rate lower than 2%

Annotation Module for Smartdental

Developed from September 2014 to December 2014

- Additional module supporting manuscript annotations on the pathological pictures
- Assembled in Smartdental and released by School of Stomatology, Peking University