

# Gefei Zuo

Downloadable at <https://github.com/Alkaid-Benetnash/CV>

Last update on December 13, 2017

Email: [zgf574564920@gmail.com](mailto:zgf574564920@gmail.com), Phone: +86.15656577795

Address: Room 212, Building 321, USTC, No.96, JinZhai Road, Hefei, Anhui, China.

## Education

University of Science and Technology of China (USTC)

Sept. 2014 – present

**B.E. in Computer Science, in the Special Class for the Gifted Young (SCGY)**

- Cumulative GPA 3.75/4.30, Rank 15/140
- Enrolled in the Talent Program in Computer and Information Science and Technology

Northeast Yucai School (Senior High School)

Sept. 2011 – June. 2014

## Research Experience

System Group Intern, instructed by [Lintao Zhang](#)

MICROSOFT RESEARCH ASIA

**Efficient and Scalable Total-Order Message Scattering in Datacenter Network[1]** Jul. 2017 – Oct. 2017

- Offload reordering and buffering to endhost: separate control plane from data plane.
- Readily deployable: programmable switches, commodity switches, endhosts only.
- Accelerate distributed transactional processing by 10X with little overhead.

Soft Robot Lab, instructed by [Xiaoping Chen](#)

UNIV. OF SCIENCE AND TECH. OF CHINA

**Whole manipulator control in constrained environments[2]**

Dec. 2016 – Mar. 2017

- Extend traditional Jacobians method with new constraints, take obstacle's information into account.
- Enable our softrobot work in environments with obstacles.

## Publications

[1] **Efficient and Scalable Total-Order Message Scattering in Datacenter Network**

*Bojie Li, Gefei Zuo, Wei Bai, Enhong Chen, Lintao Zhang*

Submitted to EuroSys'18

[2] **Whole manipulator control in constrained environments**

*Dengyuan Wang, Xiaotong Chen, Gefei Zuo, Xinghua Liu, Zhanchi Wang, Hao Jiang and Xiaoping Chen*

Submitted to ICRA'18

## Project Experience

USTC Freeshell

UNIV. OF SCIENCE AND TECH. OF CHINA

**Maintainer**

Sept. 2014 – Jul. 2017

- An IaaS service for students to learn and use Linux, supporting various Linux distributions.
- Utilize OS level virtualization (OpenVZ), distributed storage (Ceph), dynamic routing (RIP).

USTC Open Source Software Mirror

UNIV. OF SCIENCE AND TECH. OF CHINA

**Maintainer**

Jul. 2015 – Mar. 2017

- It is one of the largest open-source software mirrors in China.
- It hosts 25 TiB+ content and generates 10 TiB+ network traffic per day.
- Deal with many kinds of performance or software/hardware issues.

Distributed File Storage

UNIV. OF SCIENCE AND TECH. OF CHINA

**Team project of Principles and Design of Operating Systems**

Mar. 2016 – Jun. 2016

- Implement git-like(content hash as index) file/directory indexing API for web frontend.
- Design and Implement synchronize operation based on concept of blockchain.

Pipeline MIPS CPU on FPGA

UNIV. OF SCIENCE AND TECH. OF CHINA

**Course project of Computer Organization**

May. 2016

- Implemented in Verilog, 5 stage pipeline, 40 instructions, exception support.

## Honors and Awards

SOSP'17 Student Research Competition (Undergraduate Category), the Second Place

Oct. 2017

USTC Outstanding Student Scholarship (Grade 2)

2016, 2017

## Extracurricular Activities

President, Linux User Group, USTC

May. 2016 – June. 2017

Vice President, Linux User Group, USTC

May. 2015 – May. 2016

Vice Minister, Technology team, Student Union, SCGY

Sept. 2015 – May. 2016

## Skills

**Programming:** C/C++, Python, Matlab, Bash, Verilog

**Linux:** Network management, Server maintenance

**Github:** <https://github.com/Alkaid-Benetnash>