

Gefei Zuo

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

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4th year undergraduate student

Education

University of Science and Technology of China

HEFEI, ANHUI, CHINA

B.S. in Computer Science (School of Gifted Young)

Sept. 2014 – present

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

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](#)

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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

Work Experience

USTC Freeshell

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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 OpenSource Mirrors

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Maintainer

Jul. 2015 – Mar. 2017

- It is one of the biggest OpenSource mirror in China, hosts 25TiB+ content, has 10TiB+ traffic per day.
- Deal with many kinds of performance or software/hardware issues.

Distributed File Storage

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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

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Course project of Computer Organization

May. 2016

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

Awards

SOSP'17 Student Research Competition (Undergraduate Category) 2nd 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, Special Class of the Gifted Young

Sept. 2015 – May. 2016

Skills

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

Linux: Network management, Server maintenance

Github: <https://github.com/Alkaid-Benetrash>