$Gefei~Zuo~~{\it Downloadable~at~https://github.com/Alkaid-Benetnash/CV}$

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

4th year undergraduate student

Education

University of Science and Technology of China

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

Hefei, Anhui, China 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

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

Work Experience

USTC Freeshell

Univ. of Science and Tech. of China Sept.'2014 - Jul.'2017

Maintainer

- 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 Jul.'2015 – Mar.'2017

Maintainer

- 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.

Awards

SOSP'17 Student Research Competition (Undergraduate Category) 2nd place USTC Outstanding Student Scholarship (Grade 2)

Oct.'2017 2016, 2017

Extracurricular Activities

President, Linux User Group, USTC Vice President, Linux User Group, USTC May.'2016 - June.'2017

Vice Minister, Technology team, Student Union, Special Class of the Gifted Young

May. 2015 - May. 2016

Sept.'2015 - May.'2016

Skills

Programming: C/C++, Python, Matlab, Bash, Verilog Linux: Network management, Server maintenance **Github:** https://github.com/Alkaid-Benetnash