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Room 212, Building 321, East Campus, USTC

3rd 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
- Enrolled in the Talent Program in Computer and Information Science and Technology

Awards

- Outstanding Student Scholarship (Grade 2) in Sophomore Year
- Outstanding Student Scholarship (Grade 3) in Junior Year
- Outstanding Freshman Scholarship (Grade 3)

Research Experience

System Group Intern

MICROSOFT RESEARCH ASIA

Efficient and Scalable Total-Order Message Scattering in Datacenter Network

Jul. 2017 – present

- Offload reordering and buffering to endhost: separate control plane from data plane
- Minimax clock synchronization mechanism: low latency
- Logical equivalent of endhosts and switches: provide incremental deploy ability
- Readily deployable: programmable switches, commodity switches, endhosts only.

Soft Robot Lab, instructed by Xiaoping Chen

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Motion Planning for Soft Multi-Segment Manipulators in 3D Environment

Dec. 2016 – Mar. 2017

- Extend traditional Jacobians method with new constraints suit for soft robot

Work Experience

USTC Freeshell

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Maintainer

Sept. 2014 – Jul. 2017

- Container-based IaaS service based on OpenVZ virtualization, supporting various Linux distributions.
- Reconstruct previous version with ceph and openstack working in progress

USTC Opensource Mirrors

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Maintainer

Jul. 2015 – Mar. 2017

- One of the biggest opensource mirror in China.
- Test and deploy several kinds of block cache, finally improve the disk IO capability more than twice
- 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 interface(implemented by others)
- 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.

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, School of Gifted Young

Sept. 2015 – May. 2016

Skills

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

Linux: Network management, Server maintaining

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