Gefei Zuo

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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 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
  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 UNIV. OF SCIENCE AND TECH. OF CHINA
  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 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) silver medal *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-Benetnash