Yulong Hui

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RESEARCH INTERESTS

Expected Future: Database System, Cloud & AI System
Past: Networks, Wireless Communication, Deep Learning

EDUCATION

School of Electronic Information, Shanghai Jiaotong University
Major in Computer Science and Engineering GPA: 90.3/100 Rank:17/157(10.8%) Sep 2018 - present

Zhiyuan College, Shanghai Jiaotong University
Member of Zhiyuan Honors Program of Engineering (Top 5%) Feb 2019 - present

Antai College of Economics, Shanghai Jiaotong University
Minor in Finance Feb 2020 - present

PROFESSIONAL EXPERIENCE

Tsinghua University Beijing, China
Supervised by *Huanchen Zhang*, in Institute for Interdisciplinary Information Sciences Jun 2021 – Present
- Incoming Ph.D.
- Focus on the design and optimization of Database System.

Shanghai Jiaotong University Shanghai, China
Supervised by *Quan Chen*, in Emerging Parallel Computing Center Mar 2021 – Jun 2021
- Research Intern
- Focus on the optimization of Cloud resource and AI system.

Supervised by *Jiadi Yu*, in a school program called PRP Feb 2021 – Jun 2021
- Research Intern
- Project about Gait Recognition based on WiFi, aimed at InfoCom-2021 (Participant)

Supervised by *Linghe Kong*, in Advanced Network Lab Sep 2019 – Mar 2021
- Research Intern
- Project about LoRa orthogonality, aimed at MobiCom-2021 (Core member)
- Paper about multi-modal learning, though marginally rejected by IJCAI-2021 (Core member)
- Paper about AI used in 5G policy, though rejected by TII-2020(IF>9) (Participant)
- Project: Reinforce the signal strength of LoRa using backscatter (Core member)
- Project: Defraud navigation apps using crowdsourcing method (Participant)

Tencent Shenzhen, China
Department of Cloud Architecture Platform July 2021 – Sep 2021
- Expected Engineer Intern
- Focus on Operating System.

SELECTED PROJECT

Unprivileged Container on HPC *EI313: Sci and Tech Innovation* Nov 2020 – Dec 2020
- Score:30/30, Rank:1/157
- I deployed a container using remote virtual machine to help the users control the resource without giving them root authority, which improves the security of the HPC.

Advanced Linux Kernel *CS356: Experiments on OS* Mar 2020 – June 2020
- Score:100/100, Rank:1/157
- I designed and implemented an advanced OOM killer, which improved the performance of the Android linux kernel.

MIPS CPU on FPGA *CS145: Experiments on Arch* Mar 2020 – May 2020
- Score: 100/100, Rank: 1/157
- I implemented a MIPS CPU with 5-stage pipeline using Verilog HDL.

B Plus Tree *CS158: Data Structure (Honor)* June 2019
- Score: 30/30, Rank: 1/80

- I implemented a toy b-plus-tree using C++.

SCHOLARSHIPS

- Fan Hsu-chi Principal Scholarship (1%) 2019, 2020
- Zhiyuan Honors Scholarship (5%) 2019, 2020
- Excellent Undergraduate Scholarship (15%) 2019, 2020

SKILLS

English: CET4: 604, CET6: 561 (Passing Score: 425)
Competent: C and C++, Python, Java, Html & CSS
Experiences: Golang, Verilog, JavaScript, Matlab

EXTRACURRICULAR ACTIVATIES

President of Fan-scholar student union Member of the school soccer team Academic Counselor of the school
Leader of Zhiyuan Engineering Honors Program Volunteer of Xingran Class