HengYue Kang

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Education

China University of Geosciences (CUG), Wuhan, China   2020 – Present

B.Eng Li Siguang Class in Computer Science and Technology, expected June 2023
- GPA:89.95/100
- A Courses:Computer System,Big Data System and 16 others

China University of Geosciences (CUG), Wuhan, China   2019 – 2020

B.Eng in Applied Chemistry

Research Interest

Storage Engine,Distributed System,Erasure Coding,Database

Experience

Advanced Dependable Storage Technology Lab,Huazhong University of Science and Technology   Oct.2021 – Present

Research Intern   Advisor: ⚲ Yuchong Hu

- Read papers and code of ⦿ ECHash and ⦿ LogECMem to be familiar with **Erasure Coding** and in-memory cache storage engine such as **Memcached**.
- Migrated schemes for effective erasure coding **update** in LogECMem to ⦿ **Fatcache** clusters using ⦿ Libmemcached.
- Modified fatcache to only use SSD as storage media,designed and implemented a kind of **Garbage Collection** for Full-Stripe update to reduce I/O and overhead.

Li Siguang Project,China University of Geosciences

- Only **41 students** are selected from the same grade and the complete credit system promised more flexible major and class choices for individuals.
- Participated in complex multi-view data representation learning and clustering method research,constructed baselines for single-cell clustering.

Selected Projects

Optimization For xv6 Operating System   ⦿ xv6 Jan. – Mar. 2021
- Implemented **Copy-On-Write Fork** for xv6 to defer allocating and copying physical memory pages for the child process until the copies are actually needed.
- Added a feature to xv6 that periodically alerts a process as it uses CPU time and implemented a primitive form of **user-level interrupt/fault handlers**.

Selected Awards

Academic Excellence Scholarship   2021

Skills

- Programming Languages: C/C++,Python
- Tech Skills:Fatcache,Libmemcaced,Memcached,Git,GDB,Leveldb
- Languages: English - IELTS(R7.0L7.0W6.5S6.0), Mandarin - Native speaker