

WEIQI CHEN

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🎓 EDUCATION

The University of Hong Kong (HKU), Hong Kong SAR 2023 – Present

Master of Science in Computer Science (CS), expected August 2024

Huazhong University of Science and Technology (HUST), Wuhan, China 2013 – 2017

B.E. in Computer Science and Technology (CS)

👥 EXPERIENCE

Huawei Cloud Computing Technologies Co., Ltd. Shenzhen, China 2017 – 2023

Engineer/Senior Engineer

- Distributed Block Storage System (EVS) storage pool side module design and code implementation. Public cloud operation and maintenance implementation and operation and maintenance code writing. Public cloud second-generation distributed file system (EFS) module design and code implementation.
- EFS project team committer, MDE/MSL, C language trusted professional certification.
- Performance in the past three years: B+, B+, A (from far to near)

⚙️ PROJECTS

Huawei Cloud High-Performance Distributed Storage Pool July 2017 – Aug. 2020

Implement a storage pool that supports 4GB/s and 1000k IOPS per volume

- Responsible for the IO path design of a single module on the storage pool side, design and implement storage pool downgraded read, read repair, BST mechanism, data fixed-length deduplication, compression mechanism prototype design verification, and tackle data inconsistency issues.
- Responsible for memory reduction before project launch, solving memory leak issues and usage optimization.

Huawei Cloud and France Telecom jointly implement operations Sept. 2020 – May 2021

Handle France Telecom Cloud's existing network issues and upgrade the existing network infrastructure

- Assist in cloud platform upgrades, responsible for online block storage version upgrades and emergency problem handling.
- Assist France Telecom's French and Egyptian teams to communicate with the domestic Huawei Cloud team on block storage issues.
- Conduct live network inspections during major holidays to ensure network security and empower the France Telecom team.

Huawei Cloud High-Performance Distributed File System Jun. 2021 – Aug. 2023

Designing the next generation distributed file system based on the existing EFS

- Design and implement the second-generation cloud elastic file system (EFS), so that a single file system supports a maximum bandwidth of 20GB/s and 1 million IOPS. Support POC testing and performance comparison testing for internal (EDA) and external major customers (rendering scenes: morevfx, etc., AI training: Momenta, etc.).
- Participated in the design and implementation of EFS-based file cache, supporting the loading of OBS and NAS data into the cloud file system and supporting complete v3 semantics. Also designed and implemented a mechanism for automatically eliminating data based on factors such as access time and mutual exclusion with read and write in OBS scenarios.
- Designed a data tiering and elimination mechanism to reduce product and customer usage costs. Also designed a cloud file system heterogeneous migration solution to support seamless migration from the old version of EFS to the new generation of EFS architecture.

- Establish an EFS professional operation and maintenance team to communicate and coordinate with the department's existing OPS/SRE team. Design and automate emergency plans for high-risk issues on the EFS network, achieve a 90% probability of automated processing of alarms and faults, and reduce the manpower consumption of the OPS/SRE team.

⚙ SKILLS

- Programming Languages: C > C++ >= Python
- Platform: Linux

♡ HONORS AND AWARDS

Ace Team of Storage Service Product Department	Dec. 2021
Block Storage Service Domain Project Group Golden Cloud Individual Award	Nov. 2022
Block Storage Service Domain Project Group Gold Cloud Team Award	Feb. 2023
Block Storage Service Domain Project Group Gold Cloud Team Award	May. 2023
Block Storage Service Domain Project Group Gold Cloud Team Award	Jul. 2023
Top Ten Outstanding Individuals of 2022 in Storage Service Products Department	Feb. 2023

ℹ MISCELLANEOUS

- An EFS-related patent
- Languages: English - Fluent(IELTS 6.5), Mandarin - Native speaker