Wenyu Huang

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Education

The Chinese University of Hong Kong, Shenzhen (with 2-yr IANG Visa) Sep 2021 — Oct 2023
Master of Philosophy in Computer and Information Engineering; *Shenzhen, China*
- **Relevant Coursework:** Algorithms Analysis, BlockChain, Deep Learning and Machine Learning
- **Supervisor:** Prof. Chung Yeh-Ching

Wuhan University of Technology Sep 2017 — Jul 2021
Bachelor in Software Engineering *Wuhan, China*
- **Grades:** Overall GPA 3.95 of 5.00, ranking top 10%
- **Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, the Operating System, Compilers, Database System
- **Awards:** University Academic Scholarships from Year 1 to 4, 3rd prize of China Undergraduate Computer Design Competition

Experience

Labring Nov 2022 - Feb 2023
Software Engineer Intern *Remote, China*
- Implemented a distributed file system called sealfs (https://github.com/labring/sealfs).
- Optimized the performance of the sealfs about the local storage and metadata storage.

Huawei Technologies Co., Ltd Jun 2022 - Aug 2022
Software Engineer Intern, Poincaré Lab, 2012 Lab *Hangzhou, China*
- Implemented SMP arguments support for the Stratovirt, a userspace hypervisor.
- Read the Source Code of KVM

Open Source Projects

nydusd | *Rust*
- **Code**: https://github.com/dragonflyoss/image-service/commits/master?author=uran0sH
- The nydus project implements a content-addressable filesystem on top of a RAFS format that improves the current OCI image specification, in terms of container launching speed, image space, and network bandwidth efficiency, as well as data integrity.
- I mainly did a few things: switched the asynchronous library of nydusd-cached to mio, unified the binary files of nydusd, and implement automatic retry connection to the docker registry of nydusd.

Lightweight Object Storage | *Golang*
- **Code**: https://github.com/uran0sH/go-rgw
- Because Ceph's native object storage/object-based storage gateway service (Rados gateway) and the underlying Ceph coupling are high, it is not easy to transform and expand. So this project is based on the Librados API already provided by Ceph, and the implementation of light-level object storage/object-based storage gateway service.
  1. Different from Ceph's native storage gateway: store metadata and acl in the database for future expansion.
  2. Meet the basic upload and download of large and small files, the implementation of multipart upload, and the implementation of image cutting, blurring, zooming and other functions.

Others
- I also contribute to other communities, like: rust-vmm, datafuselabs, Casbin, and so on

Technical Skills and Interests

Languages: Rust, C/C++, Go, Bash
Interests: the operating system - virtualization & file system & compiler.
DevOps: GitHub Actions
Learning: Learn OCaml and try to use it to write an interpreter