Hao Zhang (张豪)

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Education

NCEPU 2016/09 - 2020/07Baoding, Hebei

Bachelor of software engineering

Work Experience

EloqData Since 2022/11 Beijing

Software Engineer

- [C++] Develop MonoSQL which encapsulate DynamoDB to be used as a storage engine for MariaDB
- [C++] Develop CDC for ElogSQL to replicate incremental data
- [C++] Develop the EloqLoad. A tool used for importing data at TB scale to EloqSQL
- [Rust] Develop the command line tool eloqctl for deploying and controlling EloqSQL and EloqKV clusters
- [Golang] github.com/monographdb/tidb Develop EloqDM which is a fork from TiDB-DM, make it compatible with EloqSQL
- [Golang] github.com/monographdb/codis Develop Codis to make it compatible with EloqKV
- [Golang] github.com/monographdb/juicefs Develop JuiceFS to use EloqKV as it's metadata engine
- [Shell] Build the release workflow of EloqSQL and EloqKV based on concourse

Tap4fun 2020/07 - 2021/12Golang Developer

Participated in the development of "Age of Apes" and "Invasion"

Network courses

TinyKV github.com/howz97/tinykv

MIT6.824 github.com/howz97/mit6.824

CMU15-445 github.com/howz97/bustub

CMU15-721 github.com/howz97/postgres/tree/2023-S721-P1

Implement a foreign data wrapper for Postgres to support columnar storage.

toyos github.com/howz97/toyos

A naive os implemented following the guidance of "Writing an OS in Rust" blog series.

Personal Projects

Algorithm Library github.com/howz97/algorithm

Since 2019/07

Chengdu

A algorithm library written in golang, covering all contents of "Algorithms" by Robert Sedgewick. This library includes sorting, balanced tree, graph, string sorting/search/matching/compression, priority queue.

LSM-Tree github.com/howz97/lsm-tree

Lightweight key/value storage engine based on lsm-tree. Implemented basic compaction, WAL, MVCC based transaction, optional serializable snapshot isolation.

Bitcask github.com/howz97/bitcask

Lightweight key/value storage engine based on bitcask, written in async rust.

time-wheel github.com/howz97/time_wheel

A timer written in rust.

Open-Source Contributions

- github.com/etcd-io/etcd/pull/13870
- github.com/MariaDB/server/pull/2813