

# Yukang Lian

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## Education

### Harbin Institute of Technology, Shenzhen

Master of Engineering - Control Science and Engineering

Aug 2021 – Dec 2023 (Expected)

Shenzhen, China

### Nanjing University of Science and Technology

Bachelor Degree - Automation

Sep 2017 – June 2021

Nanjing, China


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## Open-Source Contributions

### Apache/Doris

July 2022 - present

An easy-to-use, high-performance and unified analytical database

 [Apache/Doris](#)

- Add Tracing Mechanism for Doris
  - Implement some build-in functions
  - Improve the array datetime and decimal data types
  - Reform the metrics of Doris with bvar
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## Project

### MIT 6.824 Distributed Systems

Aug 2022 – Oct 2022

A distributed KV database developed based on Go

-NoValue-

- Adopt Multi-Raft architecture, support data sharding processing and shard migration.
- Raft supports basic functions such as Leader election, log replication, and Snapshot.

### CMU 15445 Database Systems

Oct 2022 – Dec 2022

A stand-alone database that supports simple SQL operations based on C++

-NoValue-

- The bottom layer designs BufferPool based on LRU, and all page operations are performed on BufferPool. At the same time, a scalable hash table is implemented in Buffer Pool.
  - The statement execution adopts the volcano model and supports SELECT, DELETE, UPDATE, JOIN, AGGREGATION, LIMIT, and DISTINCT operations. Join has two implementations: Nested Loop Join and Hash Join.
  - Concurrency control adopts 2PL design to realize three isolation levels of RU, RC, and RR.
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## Skills

**Programming Languages:** C++, Java, Golang, Python and Matlab

**Tech Skills:** Execution engine, Query optimizer