

Iggie Wang

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🎓 EDUCATION

Wuhan University, *Software engineering, Undergraduate* 2017.09 – Now

- **GPA:** 3.83/4.0, **Ranking:** 16/258
- **Courses:** Data Structure and Algorithm(99), Database System(93), Principles of Operating System(86), Network and Distributed Computing(92)
- **Anticipated Graduation Date:** 2021.06

Huazhong University of Science and Technology, *Computer architecture, Master*

- **Anticipated Admission Date:** 2021.09

👥 EXPERIENCE

PingCAP Talent Plan Offline Practice, *Beijing, CN* 2019.07 – 2019.08

PingCAP Inc.

- Implemented Index Advisor for TiDB with a partner from Institute of Information Engineering, Chinese Academy of Sciences, recommending appropriate indexes for tables based on the input workload.
- Referred to the paper - DB2 Advisor: An Optimizer Smart Enough to Recommend Its Own Indexes.
- Tested performance with the TPC-DS benchmark, the execution time is down to 75% by inserting 13 recommended indexes and 60% by inserting 24 recommended indexes.

Systems Engineer Intern - Cloud BU, *Shenzhen, CN* 2020.11 – (Anticipated)2021.04

Huawei Technologies.

- Participated in the development of a distributed file system, referred to the SwarmFS.
- Implemented data segmentation and aggregation on read/write flow sequence.
- Used memory pool to manage the message structure and other objects to avoid malloc/free frequently.
- Modified Rocksdb row cache to use memory effectively and shorten Get path, improving read performance.
- Unit test(gtest), performance test(vdbench, mdtest, diagnose).

⚙️ PROJECT

LRU Dynamic Network Topology model: Entry for a distributed system competition. Given the node number and channel parameters, design a dynamic network topology based on LRU and prescribed routing rules, so that each node in the cluster can realize channel planning and message scheduling in a self-cooperative way.

House Price Data Analysis System: Summer 2020 software engineering practice team project of School of Computer Science, Wuhan University. Realized the inquiry, comparison and forecast of house price in cities across the country. My responsibility was mainly for crawling house price website data, designing MySQL tables, and writing unit test. The project won the first prize and the optimum technological innovation award.

MIT-6.824 Distributed System Lab: Implemented a distributed MapReduce and Raft protocol in Go.

🔧 SKILLS

- Programming Languages: mainly using Golang, comfortable with C++/Python
- Basic System Knowledge: Database, Operating System, Storage System, Distributed System
- Familiar with Linux programming environment

📄 OTHER

- Wuhan University 2017-2018 Academic Year, 2018-2019 Academic Year Excellent Student
- Languages: English - Good(CET4:573, CET6:504), Mandarin - Native speaker
- TiDB Active Contributor - Merged 17 PRs into TiDB, including (1)Improve TiDB SQL parser compatibility for MySQL 8.0; (2)Implement vectorization of some expressions.