



武汉理工大学

Zonghui LIU

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EDUCATION BACKGROUND

Wuhan University of Technology

B.Eng. in Computer Science & Technology

● **GPA:**87.12/100

Wuhan, China
Sep 2017-Jun2021

PUBLICATION:

[Liu Yuhang, **Liu Zonghui**] “The *Necessity of Labeling Von Neumann's Architecture From a Multidisciplinary Perspective* (2nd writer).”, Communications of the China Computer Federation, June 2020.

INTERNSHIP

The Chinese Software International Co., Ltd.

Intern of Data Analysis Department

Responsibilities:

- Pre-processed over 210,000 social housing rental data items during the COVID-19 epidemic, including data collection, cleaning and deduplication
- Designed the storage structure of over 170,000 social housing rental data and compressed the storage capacity to improve the work efficiency in data analysis
- Analyzed the routes and trends of COVID-19 and developed a dynamic epidemic map.
- Mined potential relationship between the epidemic trend data and housing rental data

Achievement: Recommend suitable alternatives for tenants

Ningbo, China
Jul 2020-Sep 2020

RESEARCH EXPERIENCE

Analysis and Monitor of Abnormal Urban Traffic Flow Based on Wavelet Analysis

Advisor: Prof. Liu Xinwu

Jun-Oct 2019

- Pre-processing of the trajectory and speed data (overall 570,000) of taxis in Beijing in Sep 2019
- Modelled the Beijing transportation network and used Matlab to implement wavelet analysis algorithms
- Calculated the misjudgment rate and missed judgment rate based on historical records

Database System Storage Architecture Optimization

Advisor: Prof. Du Yajuan

Mar 2019- Present

- Read literatures and implemented the existing data replacement algorithms in RDBMS
- Used more than 100,000 Tencent picture data to conduct experiments and analyzed the advantages and disadvantages of the existing data replacement strategies to improve the data replacement strategy
- Used C++ programs in local system to simulate data replacement strategy based on B+ tree structure

COMPETITION

Member, Central China Invitational Competition of MCM (First Prize in Central China)

May 2019

Member, Mathematical Contest In Modeling (Successful Participant)

March 2020

SKILLS AND CERTIFICATE

- ✧ **Computer language:** C(proficient), Python(proficient), C++, Java, MATLAB, Verilog, COMSOL, MatDEM, OMNeT++, Android Studio
- ✧ **TOEFL(Jan/05/2020):**101(R29/L28/S22/W22)
- ✧ **Hobby:** debate, melodrama