TINGZHEN YAN MsE

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EDUCATION

School of Software, Tsinghua University — Beijing, China
MSE in Software Engineering — 2022 - 2025 *(expected)*
- GPA: 3.73/4.00
- Research area: cybersecurity

College of Computer Science and Hongshen Honors School, Chongqing University
Chongqing, China
B.E. in Computer Science and Technology — 2018 - 2022
- GPA: 3.9/4.0, Weighted Average Mark: 91.64, Rank: 1/27

PUBLICATIONS

1. Changhua Chen, **Tingzhen Yan**, Chenxuan Shi, Hao Xi, Zhirui Fan, Hai Wan, and Xibin Zhao. The Last Mile of Attack Investigation: Audit Log Analysis towards Software Vulnerability Location. *IEEE Transactions on Information Forensics & Security*, 2024.

INTERNSHIPS

Meituan | Beijing, China — 2024.05 - 2024.08
- Downgrade query by truncating recall in the Query Engine. Downgrade the topK parameter of vector index queries.
- An in-place update scheme for the real-time inverted index of the storage engine was designed.
- Refine storage engine monitoring and implement memory monitoring for different tables.

Byte Dance | Beijing, China — 2021.10 - 2022.01
- Feature task platform migration. Migrate the feature calculation tasks on Dorado to the team's self-developed platform.
- Batch task logic reconstruction. Optimize feature calculation logic mainly to reduce invalid traversal during aggregation and optimize sorting when truncating results.

PROJECTS

C language compiler design
I implemented a C language compiler that supports a subset of the C language, generates runnable mips assembly code, and supports error detection. — 2021.05 - 2021.06

MIPS CPU design
A five-stage pipeline CPU was completed, which supports 57 instructions and exception processing. — 2021.01 - 2021.02

AWARDS AND HONORS

- **Friends of Tsinghua-Glodon Technology Research Scholarship**, Tsinghua University 2023
- **Chinese Academy of Sciences Undergraduate Scholarship**, Chinese Academy of Sciences 2020
- **Yan Jici Class Scholarship**, Chinese Academy of Sciences, 2020
- **Chongqing University Comprehensive Scholarship*4**, Chongqing University 2020
- **Chongqing University Excellent Student**, Chongqing University 2020
- **The second prize of Mathematics competition of Chinese College Students**, The Chinese Mathematical Society 2019
- **The first prize of Chongqing University Mathematics Competition**, Chongqing University 2019

SKILLS

Languages: Chinese, English.

Programming: C/C++, python, java, assembly, gcc, make, gdb, git, Spark.