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: Systems, 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, Ranking: 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
- Designed an in-place update scheme for the real-time inverted index in the storage engine.
- Implemented query downgrading by truncating recall in the Query Engine.
- Refined storage engine monitoring and implemented memory tracking for various tables.

Byte Dance | Beijing, China   2021.10 - 2022.01
- Reconstructed batch task logic to optimize feature calculation by minimizing invalid traversal during aggregation and optimizing sorting when truncating results.
- Migrated the feature calculation tasks from Dorado to the team's self-developed platform.

PROJECTS

C language compiler design
Implemented a C language compiler that supports a subset of C, generates runnable MIPS assembly code, and includes error detection capabilities.   2021.05 - 2021.06

MIPS CPU design
Completed a five-stage pipeline CPU that supports 57 instructions and handles 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.