

QIQIAN CHEN 陈启乾

ChenQiqian

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in Qiqian Chen

(+86) 185-1183-7596

EDUCATION

Tsinghua University, Beijing, China

2020.9 – 2024.7(estimated)

Undergraduate, Software Engineering Cumulative GPA 3.793/4, rank $\sim 25/93$

University of Waterloo, Waterloo, Canada

2022.9 - 2023.1

Term Exchange, Faculty of Mathematics Term Average 89.8/100

The High School Affiliated to Renmin University, Beijing, China

2017.9 - 2020.7

RESEARCH EXPERIENCES

Research Intern

2023.6 - 2023.9

ALCHEM Group, supervised by Prof. Xuehai Qian

Purdue University

• Focused on distributed system optimization for GNN training and inference

Program Participant, Quantum Circuit Optimization Topic

2022.3 - 2023.3

Student Research Training Program(SRT), supervised by Prof. Zhengfeng Ji

Tsinghua University

- Focused on classical simulations of the quantum circuit by contracting tensor networks
- Wrote a review on the topic, summarized current state-of-the-art approaches

Undergraduate Research Assistant

2021.12 - 2022.11

PACMAN lab, supervised by Prof. Jidong Zhai

Tsinghua University

- Worked on a CPU/GPU high-performance graph mining system named *GraphSet* (SC'23)
- Improved FSM's performance on GPU with adaptive parallel strategies and implementation

C INDUSTRY EXPERIENCES

2023.2-Part-time Intern

Risk Management Technologies Department, Digital Finance

Ant Group

- Focused on graph mining in the financial anti-fraud scenario
- Incorporated billion-vertexes labeled graph into the existing system

PUBLICATION

Tianhui Shi, Jidong Zhai, Haojie Wang, Qiqian Chen, Mingshu Zhai, Zixu Hao, Haoyu Yang, Wenguang Chen. 2023. GraphSet: High Performance Graph Mining through Equivalent Set Transformations. the International Conference for High Performance Computing, Networking Storage and Analysis (SC'23)

PROJECTS

LunchTime, an Android BBS app with Kotlin and Jetpack Compose	2023.5 - 2023.6
Coding Online, a Web Python IDE with Vue3, Typescript and Flask	2022.7 - 2022.8
ThssDB, a toy relational database system with Java, Thrift and ANTLRv4	2022.6
cpp2llvm, a C to LLVM compiler using ANTLRv4	2021.12
ThuConqueror, a turn-based strategy chess game with Qt Graphics	2021.9
No Gugu Todo List, a todo list with WeChat Miniprogram framework	2021.2 - 2021.7
ERISC Simulator, a C++ simulator of an extremely reduced instruction set	2020.11

SKILLS

- Language: C++, CUDA (Proficient); Python, JS/TS, Java, Kotlin (Familiar); Rust (Novice)
- Framework: Qt, Vue.js, Windows & Android SDK, Flask, PyTorch
- Tools: Linux (cluster experience), Slurm, Git, LATEX, Docker, CMake
- English: IELTS 7.5 (R9.0, L8.5, W6.5, S6.0), TOEFL 106(R30, L27, S23, W26)

♥ SCHOLARSHIPS AND HONOURS

Social Work Outstanding Scholarship ,Tsinghua University	2022.11
Honorable Mention(20%), 2022 The Interdisciplinary Contest in Modeling	2022.2
Comprehensive Outstanding Scholarship(20%), Tsinghua University	2021.11
Third Prize, 2021 China Wechat Program Developing Competition	2021.8
First Prize(20%), 2018 National Olympics of Information, Province(NOIp)	2018.11

Last updated: 2023.7