



QIQIAN CHEN

陈启乾

✉ cqqqwq@outlook.com
🌐 ChenQiqian
🌐 <https://www.cqqqwq.com>

✉ cqqthu20@mails.tsinghua.edu.cn
in Qiqian Chen
☎ (+86) 185-1183-7596

🎓 EDUCATION

Tsinghua University, Beijing, China 2020.9 – 2024.7(estimated)
Undergraduate, Software Engineering Cumulative GPA 3.797/4, rank ~ 23/93

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 2023.3-
ALCHEM Group, supervised by Prof. Xuehai Qian Purdue University
• Focused on system optimization for GNN training and inference

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, summarize 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 *GraphIndor*
• Improved the performance of **Frequent Subgraph Mining on GPU** by mostly 1000x with efficient adaptive parallel strategies and implementation in CUDA

⚙️ INDUSTRY EXPERIENCES

Part-time Intern 2023.2-
Risk Management Technologies Department, Digital Finance Ant Group
• Focused on **graph mining** in the financial scenario
• Incorporated **unprecedented billion-vertexes labeled graph** into the existing system

🧩 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
c++2llvm, 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, L^AT_EX, Docker
- 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 , <i>Tsinghua University</i>	2022.11
Honorable Mention(20%), 2022 <i>The Interdisciplinary Contest in Modeling</i>	2022.2
Comprehensive Outstanding Scholarship(20%), <i>Tsinghua University</i>	2021.11
Third Prize, 2021 <i>China Wechat Program Developing Competition</i>	2021.8
First Prize(20%), 2018 <i>National Olympics of Information, Province(NOIp)</i>	2018.11