



# CHEN QIQIAN

陈启乾

Western name order: Qiqian Chen

✉ [cqqqwq@outlook.com](mailto:cqqqwq@outlook.com)

🌐 [ChenQiqian](#)

🌐 <https://www.cqqqwq.com>

✉ [cqqthu20@mails.tsinghua.edu.cn](mailto: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 ~ 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

2023.3-

ALCHEM Group, supervised by *Prof. Xuehai Qian*

Purdue University

- Focused on system optimization for GNN training and inference

### Quantum Circuit Optimization, Participant

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

### Undergraduate Research Assistant

2021.12 – 2022.10

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

## ⚙️ 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 graph** into the existing system

## 🧩 PROJECTS

**LunchTime**, an Android BBS app with Kotlin and Jetpack Compose

TBD

**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, Flask, WeChat MiniProgram, Windows & Android SDK
- Tools: Linux (Cluster experience), Git, L<sup>A</sup>T<sub>E</sub>X, 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