JIAJUN QIN

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RESEARCH INTEREST

I am a third-year undergraduate student at Zhejiang University. My research interests include **Machine Learning systems**, **heterogeneous computing** and **computer architecture**. Currently, I focus on acceleration of classic Machine Learning algorithms on heterogeneous devices(e.g. FPGA).

EDUCATION

Zhejiang University, Chu Kochen Honors College

Sep.2021 - June.2025(expected)

Bachelor of Science, Computer Science and Technology

Hangzhou, Zhejiang, China

- GPA: 91.77/100.00 Rank: 2/81
- Selected Courses: Computer Organization and Design(99), Fundamental of Data Structure(99), Advanced Data Structure and Algorithm Analysis(96), Mathematical Analysis II(95 95)

PROJECTS

Implementation of Improved Kmeans Algorithm on FPGA 🗘

Aug. 2023 - Now

supervised by Prof.Zeke Wang

- First dataset will be transfered from host to HBM on the FPGA board, then I will implement the improved Kmeans algorithm by FPGA to accelerate it.
- The project is done in Chisel, which is a language embedded in Scala and it can generates Verilog codes.

MiniSQL: A Basic DBMS | C++

Spring 2023

course project of Database System, teamwork

- It includes a disk manager, buffer pool manager, table heap, B+ tree index, catalog manager, SQL parser and executor. It supports common database operations and comes with an interactive SQL interpreter.
- I was involved in the development of buffer pool managaer, table heap, B+ tree index and SQL executor.
- Our DBMS can pass all the test cases. And it can handle querying on 100,000+ records in 0.2 second.

HONORS AND AWARDS

Zhejiang Government Scholarship

Fall 2022, 2023

Awarded by Ministry of Education of Zhejiang, Top 6%, 2 consecutive times

Zhejiang Province, China

Huawei Elite Scholarship

Oct. 2023

Awarded to 4/∼500 students by Huawei

Huawei Technologies Co., Ltd

Third Prize in National Student Computer System Capability Challenge

Aug. 2023

Awarded to Top 10% participants based on the performance of the MIPS processer

Second Prize in CSP-S 2019

Nov. 2019

National Olympiad in Informatics in Provinces

China Computer Federation

TEACHING ASSISTANT

Introduction to Computing Systems

Jul. 2023 - Sept. 2023

Zhejiang University

Hangzhou, Zhejiang, China

• Instructors: Dr. Yale Patt and Prof. Xiaohong Jiang

• Topic: Digital logic, assembly language & computer organization

SKILLS

Programming Languages: C/C++, Verilog, Chisel, Python, Rust

Languages: Chinese (Native), English(CET-6 575)