Yi Pan

SHANGHAI JIAO TONG UNIVERSITY

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EDUCATION

Shanghai Jiao Tong University   Shanghai, China

B.S. IN COMPUTER SCIENCE, ACM HONORS CLASS   Aug. 2022 - Present

- **ACM Honors Class** is an elite CS program in SJTU for students ranked in the top 5% with aspirations in research.
- Cumulative GPA: **92.03/100** (until 2023 fall semester). Ranking: **1/33**.
- Selected courses: Computer Architecture (100/100), Principle and Practice of Computer Algorithms (100/100), Math Analysis (99/100), Linear Algebra (99/100) and 9 more A+ courses.

RESEARCH INTEREST

I am interested in designing computer systems that can be applied into real-world problems. Currently, I'm enthusiastic about computer architecture, distributed systems, and machine learning systems.

PERSONAL PROJECT

Comet Compiler   *Course project of Advanced Compiler*

A compiler for Mx (a C-like educational programming language) to RISC-V backend.   Feb. 2024

- Implement most optimizations in LLVM.
- Also serves as the compiler of Gelato (below), compiling Mx with SIMT extension to RISC-V with custom ISA extension.
- Written in Java, then rewritten in Rust.

Gelato GPU   *Optional project of Computer Architecture*

A RISC-V General Purpose GPU with CUDA support   Dec. 2023

- Design a set of ISA extension to support CUDA SIMT programming model.
- Capable of running large language models on a FPGA board.
- Written in SystemVerilog.

TEACHING EXPERIENCE

Teaching Assistant Programming   2023 Fall

- Worked as TA team leader.

Teaching Assistant Data Structure   2024 Spring

AWARDS

Zhiyuan Honor Scholarship   Zhiyuan Colledge, SJTU

Awarded to top 5% students in SJTU annually.   2022, 2023

Academic Excellence Scholarship   SJTU

Awarded to students with top GPA annually.   2023

SKILLS

Programming	C/C++, Rust, Python, Java, Golang, CUDA, Verilog
Tools	Git, CMake, Makefile, Docker, LaTeX, Markdown, Typst
Language	Chinese (Native), English (Fluent)