

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 2024 spring semester). Ranking: **1/33**.
- Selected courses: Computer Architecture (100/100), Principle and Practice of Computer Algorithms (100/100), Operating System (99/100), Math Analysis (99/100), Linear Algebra (99/100) and 11 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, cloud computing, and machine learning systems.

EXPERIENCE

Shanghai Jiao Tong University

Shanghai, China

Research Intern in SJTU EPCC Lab, advised by Prof. [Quan Chen](#)

Jun. 2024 - Present

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 course project of Computer Architecture

A RISC-V General Purpose GPU with SIMT programming model

Dec. 2023

- Design a set of ISA extension to support CUDA SIMT programming model.
- Capable of running machine learning tasks. (in simulation)
- Written in SystemVerilog.

Remire OS

Optional course project of Operating System

A microkernel operating system on RISC-V platform

Jun. 2024

- Implement a microkernel with shell and basic file system.
- All services are implemented as user-space processes except memory management.
- Written in Rust.

CachedLLM

Best course project of Machine Learning

An efficient LLM serving system for multi-tenant LoRA serving

Jun. 2024

- Implement a page cache system to manage adapters and persistent states of LLM.
- Built on top of vLLM.
- Written in Python.

TEACHING EXPERIENCE

Teaching Assistant Programming, Data Structure and PPCA

2023-2025

- Worked as TA team leader in those courses.

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 academic performance 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, TOEFL 106)