Yuxin Lai

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🎓 Education

Huazhong University of Science and Technology, Wuhan   2022 – Present

B.Eng. in Computer Science and Technology, Expected June 2026

- Score: 94.2 / 100 | GPA: 4.83 / 5.00
- Rank: 4 / 314

👥 Experience

KunServe: LLM Serving with Parameter-centric Memory Management July 2024 – May 2025

Research Intern Advisor: Xingda Wei (Shanghai Jiao Tong University, IPADS)   ***EuroSys'26***

A dynamic scheduling system for large language model serving, featuring innovative parameter-centric memory management. Dynamically manages parameter offloading/loading and switches model parallelism strategies based on system load, achieving up to 48x tail latency improvement.

- Contribute to core system development, conducted comprehensive performance benchmarking, and created technical diagrams & co-authored paper sections
- Enhance LLM serving efficiency through dynamic parallelism strategy switching and request rescheduling

DNN Checkpoint   Sept. 2023 – Nov. 2023

Research Intern Advisor: Yu Hua (Huazhong University of Science and Technology)

Developed high-performance distributed DNN training checkpointing via hierarchical asynchronous mechanism and hardware-software co-design.

- Established experimental infrastructure and reproduced baseline experiments
- Analyzed checkpointing mechanisms for distributed AI training systems

PKE-OS RISC-V   Dec. 2024

Course Project

A UNIX-like instructional operating system with RISC-V proxy kernel.

- Implemented core components: interrupt handling, memory management, scheduling, and file systems
- Built minimalist OS kernel through systematic source code analysis

RISC-V CPU   Sept. 2024

Course Project

A Harvard-architecture 5-stage pipelined RISC-V CPU implemented on FPGA.

- Implemented RV32I instruction set using Verilog HDL with full FPGA validation
- Developed maze game using RISC-V assembly and successfully deployed on FPGA

♥ Awards and Honors

National Scholarship (2022-2023 Academic Year)   Dec. 2023
National Scholarship (2023-2024 Academic Year)   Dec. 2024
National Olympiad in Informatics in Provinces (NOIP), *First Prize*   Dec. 2019
Lanqiao Cup Competition, *National Finals First Prize*   June 2024
CCF Collegiate Computer Systems & Programming Contest, *Bronze Award*   Oct. 2023

⚙ Technical Skills

- **Platforms**: Proficient with Linux, Docker, and Kubernetes environments
- **Programming**: Skilled in C++, Python, and Go; Experienced with CUDA and NCCL
- **Algorithms**: Strong coding and self-learning ability developed through algorithmic competition experience
- **English**: IELTS 7.5, CET-6 596 points