

ZONGZE LI

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EDUCATION

University of Chicago

Ph.D. in Computer Science

Research Interests:

Chicago, IL, USA

Sep. 2024 - Present

ShanghaiTech University

B.Eng. in Computer Science, Advisor: Prof. [Shu Yin](#) & [Rui Fan](#)

Main Courses: Computer Architecture, Operating System, Parallel Computing, Database, NLP

Shanghai, China

Sep. 2020 - July 2024

PUBLICATIONS

- Add Publication details here [Link](#)

RESEARCH EXPERIENCE

Gulliver - A Finer Grained Log-Structured PMEM File System

Research Intern, instructed by [Shu Yin](#)

Mar. 2023 – Nov. 2023

Shanghai, China

- Research kernel compilation, using suitable compilation options and auxiliary tools to enable the successful execution of the project prototype.
- Design an IOR testing plan and collaborate with team members to compare and assess the parallel access capabilities of heterogeneous file systems, such as Ext4, XFS, NOVA.

PowerInfer

Research Intern, instructed by [Rui Fan](#)

Mar. 2024 – June. 2024

Shanghai, China

- Collaborated with [SJTU-IPADS](#) Lab to successfully migrate their PowerInfer project to AMD device platforms.
- Conducted comprehensive performance analysis on AMD architecture, identifying hotspots in memcpy between CPU and GPU, and implemented optimizations resulting in a xx% improvement in inference performance.

WORK EXPERIENCE

Architecture Design Intern

[AMD Xilinx](#) Department

Apr. 2023 – July 2024

Shanghai, China

- Designed and implemented full configuration environment based on the MI210 graphics card, including remote interface integration, and provided procedural documentation for internal remote access resources.
- Contributed to maintaining and developing the HACC-NUS supercomputing cluster, offering test cases for cluster testing and successfully training and inferring large models. Provided user-oriented improvement measures.
- Provided materials and guidance for the AMD 2024 Winter Camp and the 2024 Summer School courses. Assisted in deploying hardware for the [SARI](#) research group and supported the reform of Parallel Computing course at ShanghaiTech, offering technical and equipment support for course projects.
- Participated in the development of an open-source project for visualizing model training based on Unity, successfully bridging the interaction between simulation software and local hardware inference through network debugging. Deployed models for training completion.

Club Advisor

ShanghaiTech [GeekPie](#) HPC Club

Sep. 2022 – Dec. 2023

Shanghai, China

- Develop GeekPie HPC team to participate in top tier student cluster competitions co-hosted with HPC conferences including [ASC23](#), [ISC23](#) and [SC23](#), where students build a tiny cluster under a 3000W power constraint and accelerate a set of benchmarks and applications on it.

SERVICES

Operating System Course

Teaching Assistant

Aug. 2023 - Feb. 2024

Shanghai, China

Computer Architecture Course

Teaching Assistant

Mar. 2023 - July 2023

Shanghai, China

Student Cluster Competition 2023

Advisor of the University Team

July 2023 - Nov. 2023

Denver, CO, USA

AWARDS

- **ISC23**, The Third Place - 2023
- Field Research, Outstanding Individual Award - 2022

SKILLS

Programming Languages: Python, C/C++ , Matlab, CUDA, HIP, SQL, HTML(Not limited to any specific language)

System: Specialist in Performance Analysis, familiar with LLVM, MLIR, Gdb, Qemu, Docker

AI: Familiar with general knowledge of machine & deep learning(PyTorch), interested of Sys for ML/LLM