Jiahao Zhang

Student

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Summary

I am a junior at Peking University majoring in Computer Science. I have successfully completed numerous honors courses in mathematics and programming, achieving excellent grades. I have some experience in developing parallel programs and dealing with heterogeneous devices. My current research interests focus on machine learning systems, with the goal of improving the efficiency of artificial intelligence applications.

Experience

Peking University   July 2024 - Jan 2025
Teaching Assistant

I worked as an ICS(Introduction to Computer Systems) teaching assistant in the first semester of my junior year, taking charge of assignments, exams, lab deployment, and some course teaching.

Center for Energy-Efficient Computing and Applications   March 2024 - Present
Intern Researcher

Education

Peking University   July 2022 - Present
Computer Science   Bachelor
3.79/4.0

Projects

Heterogeneous Inferencing Framework   September 2024 - Present
A heterogeneous llm inference framework.

Parallel FPGA Routing   April 2024 - June 2024
Implementing High Parallel Search on the Basic Framework of Pathfinder

GBridge
A P2P toy lending platform with front-end and back-end. I am responsible for the rust back-end.

MNIST
Classic machine learning tasks, starting from scratch without using any libraries

Nogo
A small game based on QT6, using Monte Carlo algorithm as the machine side

Skills

C++(with tool chain)
Proficient
● ● ● ● ●

Rust
Skilled
● ● ● ● ○

Python
Skilled
● ● ● ● ○

Fundamentals of Calculus, Algebra, Probability
Pretty grades
● ● ● ● ○

Linux Usage, Assembly, Wolfram, Git, Tex, Docker...

Interests

Machine Learning Systems

Awards

ICPC Regional Contest Gold Medal   2022

CCPC Regional Contest Silver Medal   2023

National Scholarship   2024

Publications

AceRoute: Adaptive Compute-Efficient FPGA Routing with Pluggable Intra-Connection   October 2024
Bidirectional Exploration
ICCAD
🔗 https://jhzhics.github.io/assets/works/2024.fpga_routing/2024aceroute.pdf