Jiahao Zhang

Student

Beijing, China | +86 15736751047 | zhangjiahao2022@stu.pku.edu.cn | https://jhzhics.github.io/

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 computer architecture and 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 Rounting **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

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Python

Skilled

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Rust

Basic Usage

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Fundamentals of Calculus, Algebra, Probability

Pretty grades

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

Interests

Machine Learning Systems

Computer Architecture

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 Bidirectional Exploration **October 2024**

ICCAD

https://xmwei.com/assets/pdf/wei2024aceroute.pdf