Jinhao Guo

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EDUCATION

Peking University   Beijing, China
Bachelor of Computer Science   *Sept. 2022 - Present*

- **Avg. Score** (until 2025 Spring Semester): 3.62/4
- Scores of some courses:
  * Practice of Programming in C&C++ : 4/4
  * Introduction to Computation (A) : 3.98/4
  * Introduction to Artificial Intelligence : 3.93/4
  * Probability theory and statistics in information science : 3.91/4
  * Design of Digital Logic: 3.88/4
  * Algorithm Design and Analysis : 3.85/4
  * Data Structure and Algorithm (A) : 3.81/4

RESEARCH INTERESTS

- Operating System
- Storage System
- Distributted System
- Systems for Machine Learning

RESEARCH EXPERIENCE

Peking University   Beijing, China
Undergraduate Researcher, advised by Prof. Diyu Zhou   *July. 2024 - June. 2026(expected)*
Research Topic: Operating Systems, Storage Systems, Machine Learning System

RESEARCH PROJECT

FlexCache: Software Designed Cache for Multi-scene Trace Data.

Collaboration with Prof. Diyu Zhou, Peking University, Liujia Li, Peking University

- I worked with my collaborators to propose a software designed cache for mutliple trace datasets, with less miss ratio.
- I conducted experiments, analyzed data, and identified some features related to distinguishing access.
- I proposed a new strategy for segmenting access cycles, which is beneficial for our understanding of data features in multiple application scenarios.

COURSE PROJECTS

NoGo-AI
Introduction to Computation (A) Course Project
Apply AI algorithms to chess, including Monte Carlo algorithm, Machining Learning.

QT Creater Project - genshin–
Practice of Programming in C&C++ Course Project
Created a card battle game, using object-oriented programming with AI algorithm implemented to determine computer strategies

ICS-labs
Introduction of Computer Science(CMU 15-213) Course Project
Labs of ICS, making everyone clearer to the composition and operation of Computer.

HONORS & AWARDS

Scholarship

- 2022-2023 Excellent Research Award of the School of Information Science and Technology

Technical Skills

Languages: Mandarin (native), English (fluent).
Programming Languages: Proficient in C/C++, Python.

Community & Leadership

Deputy Secretary   September 2022 – June 2024
Youth Volunteer Service Association of Information Science and Technology College   *Peking University, Beijing*

- Record volunteer activity expenses and coordinate volunteer activity affairs
- 2022-2023 Outstanding Volunteers
- 2022-2023 Outstanding Volunteer Service Group