

# Jinhao Guo

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## EDUCATION

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### Peking University

*Bachelor of Computer Science*

Beijing, China

*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

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- Operating System
- Distributed System
- System of Machine Learning

## RESEARCH EXPERIENCE

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### Peking University

*Undergraduate Researcher, advised by Prof. [Diyu Zhou](#)*

Beijing, China

*July. 2024 - June. 2026(expected)*

Research Topic: Operating Systems, Storage Systems, Machine Learning System

## RESEARCH PROJECT

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

*Collaboration with Prof. [Diyu Zhou](#), Peking University, [Liuji Li](#), Peking University*

- I worked with my collaborators to propose a software designed cache for multiple 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

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### NoGo-AI

*Introduction to Computation (A) Course Project*

Apply AI algorithms to chess, including Monte Carlo algorithm, Machine Learning.

### QT Creator 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

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### Scholarship

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

## TECHNICAL SKILLS

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**Languages:** Mandarin (native), English (fluent).

**Programming Languages:** Proficient in C/C++, Python.

## COMMUNITY & LEADERSHIP

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### **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