Wenhao Chen

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Education

Shanghai Jiao Tong University, Shanghai, China Sept. 2019 – June 2023 (Expected)

B.S. in Computer Science and Engineering

- GPA 92.19/100 (or 3.97/4.3), Rank 10/120
- Member of **Zhiyuan Honors Program (Engineering)**
- **Selected A+ courses**: Data Structure (Honor), Discrete Mathematics (Honor), Probability and Statistics (Honor), Algorithms and Complexity, Operating System, Computer Architecture, Artificial Intelligence
- **TA Experience**: Programming and Data Structure I (Honor)

Experience

Research July 2022-Present

Microsoft Research Asia ,System Research Group, supervised by **Qi Chen** , **Quanlu Zhang** and **Hui Xue**
Research Interests: Efficient Reinforcement Learning (System)

- Accelerating Reinforcement Learning computation in large-scale and heterogeneous systems
- Improve resource utilization during the Reinforcement Learning training process

Research June 2021-Present

Apex Lab, supervised by **Prof. Weinan Zhang**, Shanghai Jiao Tong University
Research Interests: Reinforcement Learning Applications

- Branch Ranking for Efficient Mixed-Integer Programming via Offline Ranking-based Policy Learning (submitted to ECML PKDD'22) / arXiv July 2021 - Nov. 2021
- Efficient and unified modeling system for Operations Research, Internship at Digital Brain Laboratory Mar. 2022 - June 2022

Coding Projects

- AlphaZero Gomoku Oct. 2021
  Brief introduction: Use PyTorch to reproduce AlphaZero and use it in a Gomoku game.
- StreamRipper Nov. 2021
  Brief introduction: An Adaptive Distributed Network Cache on LAN.
- Simple Ray-Tracer Aug. 2020
  Brief introduction: Implementation of *Ray Tracing in One Weekend Series*.

Honors and Awards

- Zhiyuan Honor Scholarship (top 5%) 2020,2021
- Academic Excellence Scholarship 2020,2021
- *1st Prize (477/600)*, National Olympiad in Informatics in Provinces (NOIP) 2018

Skills

- Languages: Python, C/C++, CUDA, C#
- Writing Tools: Markdown, LaTeX
- Tools and Environments: Git, Linux, Docker
- ML Related Skills: PyTorch (proficient), TensorFlow (able to read)
- Sufficient knowledge in algorithm and data structure.