

# WUZHOU SUN

· · <https://sunwuzhou03.github.io> · ·

## PERSONAL SUMMARY

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I have excellent academic performance at school, am optimistic and upward-looking, responsible at work, have strong self-motivation, love to try new things, and my research areas are **reinforcement learning and its application**.

## EDUCATION

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**The Hong Kong Polytechnic University**, Artificial Intelligence and Financial Technology, *Semester Exchange Student* 2023.09 - 2023.12

GPA: 3.57/4.3 (90/100.0), As one of the two autumn exchange students of the university, participated in the semester exchange at The Hong Kong Polytechnic University and received the Double First-Class University Funding Scholarship.

**Southwest Jiaotong University**, Artificial Intelligence, *Undergraduate* 2021.09 - 2026.07

GPA: 3.60/4.0 (87.91/100.00), Southwest Jiaotong University Comprehensive Scholarship (First Class, Second Class), Merit Student, Outstanding Student Cadre.

## INTERNSHIP EXPERIENCE

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**Southwest Jiaotong University**, Research Assistant 2024.07 - Present

- **Research on the Application of Reinforcement Learning** Apply reinforcement learning techniques to address issues in game intelligence, large language model reasoning, and other related areas.
- We converted complex evaluation problems into reinforcement learning tasks and improved the PPO algorithm to handle target evaluation and screening with uncertain numbers. This enhanced algorithm enabled us to develop a robust neural network evaluator that integrates multiple attributes for comprehensive assessment without manual data annotation.

**Beijing Zhixin Weitong Technology Co., Ltd**, AI Department Manager 2024.01 - Present

- **Intelligentization of the Company's Simulation Platform** Based on the company's simulation platform, exploring the feasibility of intelligent decision-making through reinforcement learning and the integration of company business with large models.
- Lead the development of a user-friendly distributed reinforcement learning tool, collaborated on the design and enhancement of simulation platforms to enable the integration of RL algorithms, and established local LLM tools.

**The Hong Kong Polytechnic University | AIMS Lab**, Visiting Student 2023.07 - 2023.12

- **Evaluating Player Performance and Tactical Decision-Making in Racket Sports Using Deep Reinforcement Learning** This study uses visual techniques to analyze professional badminton matches and builds a dataset. It then trains a Q-value table with Q-learning to assess player performance and inform tactical decisions.
- Developed the first open-source badminton video annotation tool leveraging pose recognition and object detection technologies, significantly reducing the dataset construction time from 2 months to just 1 week, achieving a 83% reduction in time. **project url:** <https://github.com/sunwuzhou03/SoloShuttlePose>.
- Submitted a paper to ICCA as the third author.

## TECHNICAL SKILLS

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- **Programming Languages:** Python, SQL, C/C++, Shell.
- **Operating Systems, Databases, and Engineering Tools:** Linux/Git.
- **Languages:** English: CET-4: 578, CET-6: 496; Chinese(native speaker).
- **Other:** LaTeX, Markdown.

## COMPETITION AWARDS

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- **Champion (Prize: 200,000 CNY)** of Tencent Enlightenment Artificial Intelligence National Open Competition (<https://aiarena.tencent.com/aiarena/zh/>), December 2023.

- **Third Prize** of the 14th Blue Bridge Cup Programming Contest (Python Group A) (<https://dasai.lanqiao.cn/>), April 2023.
- **Silver Award** of the 14th Southwest Jiaotong University ACM Programming Contest, May 2023.
- **Third Prize** of the 2021 Southwest Jiaotong University Rookie Cup Programming Contest, December 2021.

## COMMUNITY INVOLVEMENT/OTHER EXPERIENCE

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- Actively participate in open-source community discussions and contribute, Github: <https://github.com/sunwuzhou03>.
- Writing technical blogs, personal blog: <https://sunwuzhou03.github.io/blogs>.
- Awarded "Outstanding Class Leader" in Baidu Pinecone Talent Class Elite Program.
- Participated in the RL-China and Multi-agent applications academic conference.