

Yang Jiahao

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EDUCATION

The Chinese University of Hong Kong, Shenzhen

Bachelor of Science in Computer Engineering

Sep 2022 - Jun 2026

- **Relevant Course:** Java Programming, C/C++ Programming, Data Structure, Design and Analysis of Algorithms, Database System, Computer Networks, Parallel Programming, Software Engineering, Computer Architecture, Operating System, Compiler Construction, Machine Learning, Deep Learning, Optimization, Digital Logic & System, Embedded Systems (and Lab), Information Technology

INTERN EXPERIENCE

Digital Jinhua Technology Operation Co., Ltd.

Jul 2024 - Aug 2024

Java Backend Developer Intern

- **Job description:** Assist in maintaining and improving the municipal government stability maintenance website developed by company.
 - Redesigned the Post(position) Menu Update interface, to sync between role updates in the Post menu and the User menu role list.
 - Updated the Petition-Information Import interface, the new interface will return an Excel file with upload results and error details.

Baidu International Technology (Shenzhen) Co., Ltd.

Jun 2025 - Sep 2025

Golang Backend Developer Intern

- **Job description:**
 - Responsible for server-side related work of overseas business, including core infrastructure development, Interface implementation, and platform construction. Improve foundational components to better support business iteration.
 - Responsible for continuously optimizing existing services and address system bottlenecks to enhance stability and performance.
- **Job achievement:**
 - Responsible for five OEM feature engineering rounds, adding 132 feature fields to enhance the existing model's predictive capability.
 - Integrate core reusable utility functions into the code framework (e.g. binning, LCS), to improve subsequent development efficiency.
 - Resolved CTR model feature ID inconsistencies via cross-department collaboration, ensuring alignment to guarantee model reliability.
 - Sharded Redis and deployed independent clusters, to handle massive user profile data in India and Indonesia, ensuring service stability.

RESEARCH EXPERIENCE

Topic: MILP Instance Generators Benchmark

Sep 2024 - Sep 2025

- **Overview:** Introduce a comprehensive benchmark framework designed for the evaluation of MILP instance generation methods
- **Responsibilities:** Participated in the following team tasks
 - Analyzing previous MILP papers, identifying issues like non-authoritative weight settings and inconsistent sampling in some papers.
 - Reproducing MILP paper's code, generating datasets via Ecole & MILP papers, and creating datasets for subsequent experiments.
 - Participate in designing MILP instance generators benchmark and validate metrics and evaluate performance within our framework.
- **Achievement:** Currently submitted to **NeurIPS 2025 Datasets and Benchmarks Track**, under review
- **Contribution:** Third author of the paper, jointly participated in coding work.

REPRESENTATIVE SCHOOL COURSES PROJECT

ISP Static & Dynamic Pricing Strategies (Group)

Mar 2025 - May 2025

- **Program description:** Simulated a simple network usage environment and designed three types of pricing algorithms for the virtual Internet service provider within it, aiming to alleviate congestion rates in the simulated network environment.
 - **Contribution:** Implemented two types of pricing algorithms (Static & Q-learning based), designed a metric (user satisfaction) to assist the team in evaluating the effectiveness of three types of pricing algorithms; integrated codes from other team members.
 - **Code:** <https://github.com/LayOneA/Pricing-Algorithm-for-ISP>

SKILLS

Languages: Mandarin, English

Programming Skills: Java, Golang, Python, C/C++, MatLab