

# Yuhang YAN (Henry)

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## EDUCATION

### Cornell Tech

*MS in Applied Info Science & Info Systems – Connective Media*

Aug. 2025 - May 2027  
New York, USA

- Awarded Merit Scholarship

### The Chinese University of Hong Kong (CUHK)

*BS in Computer Science*

Aug. 2021 - Jul. 2025  
Hong Kong SAR

- First Class Honors, ELITE Stream, Dean's List (**Top 10%**)
- Exchange Programs: École Polytechnique Fédérale de Lausanne (2023–24); Peking University (2022–23)

## WORK EXPERIENCE

### AiMall Technology Co., Ltd.

*Machine Learning Engineer Intern*

Jun. 2024 - Aug. 2024  
Shenzhen, China

- **Automated Surveillance Platform:** Built an end-to-end real-time monitoring system using RPA technology, enabling fully autonomous video surveillance and reducing manual intervention.
- **Vision-Language Object Retrieval:** Designed and implemented a vision-language pipeline combining custom object detection, DeepSORT tracking, and Vision-Language Models, achieving 95%+ retrieval accuracy for people, objects, and events.
- **Cloud-Based Video & Audio Embedding Storage:** Patented a method to store video frames as embeddings in databases, cutting search time for large-scale surveillance footage from 30+ hours to minutes.
- **LLM Fine-Tuning & Optimization:** Fine-tuned proprietary LLM *iCanBridge* with LoRA plus open datasets like Alpaca and applied quantization (AWQ, GPTQ) to improve model self-awareness while boosting efficiency by 60% for scalable real-time deployment.

### AIJobTech, Ltd.

*Co-founder & CTO*

Mar. 2024 - Jul. 2025  
Hong Kong SAR

- **Co-founded AI Job Hunting Platform:** Designed core architecture and algorithms for an AI-driven job search platform, secured funding, and enabled B2B integrations.
- **AI Workflows & Resume Scoring:** Built LangChain-based workflows with proprietary rule-based and AI-driven metrics. Users who applied suggested improvements increased their resume scores by up to 1.5×, boosting application success rates.
- **AI-Powered Matching Algorithms:** Implemented CV-job matching using LLMs, collaborative filtering, and custom ranking models to cut manual search time by up to 50%, quickly connecting users with relevant opportunities and improving match accuracy.

## SELECTED PROJECTS

### Can AI Agent Fit in Human Society?

*Supervised by Prof. Michael R. LYU (CUHK) & Dr. Jen-tse Huang (JHU)*

Apr. 2024 - Jul. 2025  
Hong Kong SAR

- **Fairness Benchmark Development:** Developed an open-source fairness benchmark leveraging 19 social statistics and 3 cognitive biases to evaluate 6 LLMs and 4 T2I models. Created quantitative metrics to assess factual accuracy and fairness, uncovering patterns of bias, over-balancing issues, and guiding improvements in equitable generative model outputs.
- **Real-Time Reliability Assessment:** Assessed the reliability and factual consistency of 4 LLMs in real-time web search tasks, evaluating performance across 19 statistics from 15 countries with diverse regions, populations, and economic conditions.

## PUBLICATIONS & PATENTS

- [2] Jen-tse Huang, **Yuhang Yan**, Linqi Liu, Yixin Wan, Wenxuan Wang, Kai-Wei Chang, Michael R. Lyu. “*Where Fact Ends and Fairness Begins: Redefining AI Bias Evaluation through Cognitive Biases.*” *Findings of the Association for Computational Linguistics: EMNLP 2025*. [10.48550/arXiv.2502.05849](https://arxiv.org/abs/2502.05849)
- [1] Heng Yang, Yongjie Wu, Tao Long, **Yuhang Yan**. “*A natural language interactive retrieval intelligent security system based on large model.*” [CN118939831A](https://arxiv.org/abs/2411.18939), 2024, China.

## SKILLS

**Programming** Python{Flask, PyTorch}, JavaScript{Vue}, C, MATLAB and SQL.  
**Tools** L<sup>A</sup>T<sub>E</sub>X, Conda, Docker, Git, Linux, Shell, and Vim.