

Henry Yan

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EDUCATION

Cornell Tech, Cornell University	New York, NY
MS in Applied Information Science & Information Systems	May 2027
Relevant Coursework: Algorithms and Data Structures for Applications, Applied Machine Learning	
Honors/Awards: Jacobs CM Fellowship (Merit Scholarship)	
The Chinese University of Hong Kong	Hong Kong SAR
BS in Computer Science	July 2025
Relevant Coursework: Fundamentals of AI, Software Engineering, Advanced Data Science for System Engineering	
Honors/Awards: First Class Honors, ELITE Stream, Dean's List (Top 10%)	
Exchange Programs: École Polytechnique Fédérale de Lausanne (2023-24); Peking University (2022-23)	

PROFESSIONAL EXPERIENCE

AiMall Technology Co., Ltd., Machine Learning Engineer , Shenzhen, China	June 2024 - Aug 2024
<ul style="list-style-type: none">Engineered a multimodal pipeline with object detection, DeepSORT tracking, and vision-language models for retrievalAchieved 95%+ retrieval accuracy on people, objects, and events using integrated vision-language techniquesPatented an embedding-based storage method in SQLite, reducing large-scale video search time from hours to minutesDeveloped an end-to-end real-time surveillance platform with RPA and Selenium, reducing 90% of manual operation timeReduced deployment costs by 40% through LoRA fine-tuning and quantization of proprietary LLMs	
AIJobTech, Ltd., Co-founder & CTO , Hong Kong SAR	Mar 2024- July 2025
<ul style="list-style-type: none">Co-founded a startup for AI-driven job hunting, securing funding and partnerships through competitions and outreachDesigned and implemented the core platform with Flask, Vue, and MySQL, ensuring scalable and efficient workflowsDeveloped LangChain-based AI agents and scoring metrics that improved user resume scores by up to 1.5×Engineered CV-job matching algorithms using LLMs and collaborative filtering, reducing manual search time by 50%Led cross-functional teams and managed B2B integrations, delivering seamless products for users and partners	

PROJECTS

Can AI Agent Fit in Human Society? (Python)	Apr 2024 - July 2025
Capstone project supervised by Prof. Michael R. Lyu (CUHK) & Dr. Jen-tse Huang (JHU)	
<ul style="list-style-type: none">Designed quantitative metrics to assess factual accuracy, fairness, and real-time search reliabilityDeveloped an open-source fairness benchmark integrating 19 social statistics and 3 cognitive bias measuresEvaluated 6 LLMs and 4 T2I models, uncovering systematic fairness gaps and over-balancing issuesAssessed 4 LLMs on web-based tasks across 15 countries, exposing frequent inaccuracies in real-time searchUncovered gender and racial bias in generative outputs, guiding improvements toward more equitable AI design	

PUBLICATIONS & PATENTS

- 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*. [10.18653/v1/2025.findings-emnlp.583](https://doi.org/10.18653/v1/2025.findings-emnlp.583)
- Heng Yang, Yongjie Wu, Tao Long, **Yuhang Yan**. “**A natural language interactive retrieval intelligent security system based on large model.**” [CN118939831A](https://www.cnipr.com/cn118939831a.html), 2024, China.

TECHNICAL SKILLS

Programming: Python, SQL, MATLAB, C/C++, JavaScript, Java

ML & DS: Deep Learning, PyTorch, TensorFlow, Pandas, NumPy, Scikit-Learn, Spark

Software Dev: Object-Oriented Programming, Flask, REST APIs, Vue.js, React, Shell Scripting, CI/CD

Tools: Conda, Docker, Git, LaTeX, Linux, Vim