





Yu-Hsuan (Darcy) Yang

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Education

Nanyang Technological University	Singapore
<i>Master of Science in Financial Technology (Intelligent Process Automation Specialisation)</i>	<i>Aug. 2024 - June 2025</i>
National Chiao Tung University	Hsinchu, Taiwan
<i>Master's degree in Institute of Data Science and Engineering</i>	<i>Sept. 2018 - June 2020</i>
National Cheng Kung University	Tainan, Taiwan
<i>International Bachelor Degree Program on Energy</i>	<i>Sept. 2014 - June 2018</i>
• Minor: Mathematics	

Work Experience

FTSE Russell, An LSEG Business	Taipei, Taiwan
<i>Senior Process Automation Specialist</i>	<i>July 2025 - now</i>
<ul style="list-style-type: none">Develop a module-based automation tool for the index review process, which had been done manually. This system enables index reviewers to design the index construction process by a drag-and-drop UI.Propose a general method to automate the rebalancing process, including constituent weights adjustments and reallocation. This optimization reduces at least 4 times of the code base complexity.Maintain documentation and guidelines for users to understand the modules functionality.	
RV Capital Management	Singapore
<i>Intern Analyst</i>	<i>Jan. 2025 - March 2025</i>
<ul style="list-style-type: none">Automate financial document parsing task for the risk team by applying few-shot learning on LLM which reaches 90% accuracy and build Power BI dashboards on behalf of error analysis.Design a RAG-based lightweight chatbot that works with long documents by efficiently summarizing them and constructing vector databases. Improve the accuracy in the retrieval stage with a two-staged retrieval process.Develop a web scraping tool to automatically download trading reports received from financial institutions. Database management is implemented by ORM.	
Sinopac Holdings	Taipei, Taiwan
<i>Assistant Manager, AI engineer in Digital Technology Division (DTD)</i>	<i>Sept. 2020 - July 2024</i>
<ul style="list-style-type: none">Reinforcement learning in asset allocation: Aimed to maintain a portfolio of stocks that can beat the TWSE market based on their profile and transaction behaviors.Machine learning pipelines for customer analysis: Predicted the preferences of customers in certain financial products or campaigns based on their profile and transaction behaviors.Workload Orchestration: Optimized the utilization of computational resources in the development environment by k8s and docker.Risk and control self-assessment automation: Developed a pipeline to summarize the assessment advice from the risk control department by LLM, clustering and classification.Dojo for rapid AI demonstration: Designed a platform for displaying the GenAI and LLM applications developed by DTD. Responsible for front-end development.	

Certificates

Bloomberg for Education	Oct. 2024~April 2025
<ul style="list-style-type: none">Bloomberg Financial Fundamental: Gain knowledge of financial markets, risk and reward and portfolio management.Bloomberg Market Concepts: Delve into concepts of financial instruments such as commodities, fixed income, equities and options.	

Technical Skills

Programming	C++, Python, SQL, Golang, Java	Finance	Quantitative methods in risk and analysis
AI & ML	scikit-learn, Pytorch, LangChain	Cloud Platform	GCP, AWS
Database	MSSQL, PostgreSQL	Web Development	Svelte, React, Django, Spring Boot
Language	Mandarin(native), English(IELTS 7)		