

Tsai Yi-Kai (Nick)

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SUMMARY

- HKU BEng Data Science, graduating Dec 2026, with hands-on experience building **AI systems for financial institutions**.
- Built **agentic AI and local-LLM solutions for private credit investment workflows**; prior data/ML experience at **HSBC CIB**.
- Combines **AI engineering, enterprise integration and business-to-technical problem solving**; **CFA Level I passed**.

EDUCATION

The University of Hong Kong (HKU) | BEng in Data Science Sep 2022 - Dec 2026

- Second Class Honours (Division I); Major Representative (Top 10% of cohort)

PROFESSIONAL EXPERIENCE

Archbridge Capital Partners Limited Jun 2026 - Present

AI Transformation & Asset Management Analyst Intern Hong Kong

SFC Type 4/9-licensed asset manager managing c. US\$100m for family-office clients across private and structured credit.

AI Transformation & Automation

- Built **ACP Nexus**, an **internal AI workspace** unifying fragmented deal data and AI workflows for investment teams.
- Designed **human-in-the-loop Feasibility Agent** turning teasers into evidence-backed scorecards for standardized screening.
- Deployed **Qwen on NVIDIA DGX Spark via vLLM**, creating a private inference layer for sensitive investment workflows.
- Built a **Bloomberg + market-monitoring pipeline** across prices and portfolio news, automating recurring analyst research.
- Mapped **investment and fund-ops workflows** and built OCR automations integrating local LLMs with internal data systems.

Investment & Asset Management

- Supported **deal screening, financial analysis, due diligence, KYC and IC preparation** across private credit investments.
- Prepared **fundraising materials for UBS** distribution discussions, articulating fund strategy and portfolio construction.
- Analyzed senior loans, convertible notes and preferred equity structures, assessing collateral, covenants and return drivers.

HSBC – Corporate & Institutional Banking Jul 2025 - Dec 2025

Data & Analytics Intern – Channel Analytics Hong Kong

- Built onboarding analytics linking client sentiment and operations data; identified **8+ bottlenecks and key delay drivers**.
- Developed an **XGBoost delay-risk model with SHAP** and presented actionable drivers to senior CIB stakeholders.
- Designed **2 governed data assets integrating 3 core systems** with **PySpark/Starburst** for AI-driven CRM use cases.

SKILLS

- **AI & Engineering:** Python, SQL, LLM Agents, RAG, FastAPI, REST APIs, Node.js, OpenRouter, Copilot Studio, Git/GitHub
- **Infrastructure & Cloud:** NVIDIA DGX Spark, vLLM, Local LLM Deployment, Docker, Linux, Azure, AWS
- **Data & ML:** PySpark, scikit-learn, XGBoost, SHAP, BigQuery, Starburst, Tableau, Power BI, Looker
- **Enterprise Platforms:** Microsoft 365/SharePoint, Bloomberg Terminal/BLPAPI
- **Languages:** Mandarin (Native), English (Fluent, IELTS 7.5), Cantonese (Basic)

LEADERSHIP & ACTIVITIES

- **Co-founder, HKU Data Science Association:** Grew the community to 150+ members and hosted 5+ industry events.
- **Content Creator:** Built a 7K+ audience across RedNote and Douyin through AI, data and student-focused content.