

YEO RONG QUAN

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EDUCATION

Imperial College London | B.Sc. in Economics, Finance & Data Science

Sep 2024 – Jun 2027

- First Class Honours (Dean's List); achieved First Class grades in all 8 core modules
- Courses: Statistics, Data Structures & Algorithms, Machine Learning, Operations Research, Cloud Computing
- Activities: Data Science (Head Corporate Relations), AI (Head Outreach), Google Student Developer Club (GDG Academy)
- Selected Industry Events: Amazon Student Immersion Programme, Glencore Technology in Trading, IBM Spring Event

WORK EXPERIENCE

Data Engineering and AI Intern, Amili Singapore

May 2025 – Aug 2025

- Built an automated data pipeline using PostgreSQL relational database, AWS S3, and OpenAI embeddings to ingest and vectorise 10,000+ documents for scalable semantic search
- Trained XGBoost models for risk classification and feature attribution, integrating SHAP to improve model interpretability
- Developed and deployed a full-stack chatbot using React and AWS EC2, supporting real-file-based predictions, interactive visualisations, and retrieval-augmented generation (RAG) for intelligent Q&A, reducing manual search time by 25%

Spring Intern, Citadel & Citadel Securities

Apr 2025

- Selected as 1 of 80 students across EMEA for Citadel's European Trading Invitational
- Built and tuned Avellaneda-Stoikov market-making model in Python using simulated order flow, achieved top 5 team

Intern, GAO Capital Singapore

Feb 2024 – Apr 2024

- Built dashboards using Bloomberg API to track Indian option volatility, reducing data review time by 30%
- Conducted time series analysis on Nikkei 225 to identify seasonality patterns, informing entry and exit signals
- Backtested quantitative strategies in Python, computing Sharpe ratio and drawdown metrics to assess risk-adjusted return

Intelligence Admin Assistant (Corporal First Class), Army Training Evaluation Centre, Singapore Army

Jan 2022 – Nov 2023

- Built PowerBI dashboards to automate performance tracking and visualise metrics, reducing reporting time by 40%
- Digitised military exercise maps using ArcGIS geospatial software, enhancing training realism for over 500 personnel

PROJECTS

Building Risk Analytics for the Future | GIC Singapore Code to Impact Hackathon 2025

Sep 2025

- Developed web app using Node.js and FastAPI, featuring an AI chatbot that extracts rules from compliance PDFs, updates policies, and blocks non-compliant trades

SPAC Stock Monitoring Dashboard | Independent Project | [Deployed Website](#)

Sep 2025

- Built and deployed a full-stack SPAC monitoring web app using FastAPI, React, and Supabase, with agents for lifecycle tracking and anomaly detection, and an MCP chatbot that delivered insights from financial data tools

Optiver Market Making Challenge | IC Hack (Top 5 Finalist, Europe's Largest Hackathon)

Feb 2025

- Built real-time arbitrage and market-making algorithms to identify mispricing across simulated exchanges, placed finalist

Portfolio Optimisation | Qube Research & Technologies (QRT) Algorithmic Trading Competition

Nov 2024

- Implemented a convex portfolio optimisation model to maximise Sharpe ratio and dynamically allocate investments
- Built an automated pipeline to scrape, preprocess, and adapt 19-min interval data for real-time model training

LEADERSHIP

Head of Corporate Relations | Imperial Data Science Society

Jun 2025 – Present

- Managed external outreach for a 1,000+ member society, engaging 15+ industry professionals to support events
- Organised 5+ data science talks and panels with 50–100 attendees, overseeing logistics and liaising with speakers

Strategy Analyst | Imperial Algorithmic Trading Society

Oct 2024 – May 2025

- Backtested ML-driven strategies with a 4-member team, outperforming the S&P 500 by 8% in simulations
- Led Python workshops on strategy optimisation; presented on market microstructure to refine execution strategies

SKILLS & INTERESTS

- **Languages:** Python, Java, Javascript, SQL, R, C++, Excel, English, Chinese
- **Certifications:** AWS Solutions Architect Associate, AWS Cloud Practitioner, CS50X, Machine Learning Specialisation
- **Interests:** Taekwondo, Hiking, Outdoor Camping, Pioneering (Scouting), Drums, Chinese Chess, Calligraphy, Volunteering