

## 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-time 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