

RYAN TAN YAN TONG

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Aug 2022 - April 2026

Double Degree Program (Bachelor of Science in Business Analytics, Bachelor of Administration in Business)

- GPA: 4.83 / 5.00 (Business Analytics), 4.89 / 5.00 (Business)
- **NUS Merit Scholar**
- Selected Competitions: **Hack&Roll 2025** ([Most Entertaining Hack](#)), **Healthhack 2025** ([Best use of Intersystems](#)), Eurasia Asset Management (Finalist), SMU Future Economy Forum Case Competition 2023 (Distinction), Citadel Datathon 2024

EXPERIENCE

AI Developer, SAP

May 2024 - Oct 2024

- Built 10+ **production-ready interfaces** using SAP UI5, improving developer efficiency for in-house applications
- Integrated AI-driven workflows (RAG, embeddings, prompt engineering) into SAP CAP + Python Flask backends
- Developed **end-to-end data pipelines** for AI prototypes based on RAG, text embeddings and prompt engineering

Teaching Assistant, NUS (CS2040: Data Structures & Algorithms)

Jan 2024 - May 2024

- Led 20-student lab sessions; explained advanced topics (SSSP, MST, trees, graphs) through interactive problem solving
- Improved student performance by providing structured breakdowns of complex algorithms

PROJECTS

[Automated Trading System](#)

May 2025 – Aug 2025

- Engineered a **Rust-based trading engine** for centralized order execution and real-time market data collection
- Built a [Tauri frontend dashboard](#) for strategy tracking, fully integrated with backend execution logs
- [Backtested](#) multiple interesting research-based strategies and currently implemented two in personal system

[NUS Timetable Optimizer \(Orbital Project - Apollo 11 Achievement Level\)](#)

April 2023 - Aug 2023

- Developed website whereby users input which courses they are taking for the semester to generate a working timetable with personal constraints (z3-solver)
- Stack: **Typescript, Reactjs/Nextjs, Node.js, Sequelize**

EXTRA CO-CURRICULAR ACTIVITIES

Senior Analyst, Business Analytics Consulting Team

Jan 2024 - April 2024

- Developed **ARIMA/SARIMAX forecasting models** to predict agricultural crop yields for client engagement

SKILLS AND INTERESTS

- Languages: English (Written and Spoken, Native), Mandarin (Written and Spoken, Mother Tongue)
- Programming Languages: Rust, Python, R, Java, Typescript, Javascript, SQL (PostgreSQL, MySQL)
- Tools/Frameworks: Tauri, React/Next.js, SAP UI5, SAP CAP, Flask
- Positions: RC4 Flag 2024 Project Director, RC4 Programmes Head, RC4 Invest EXCO, RC4 CASA EXCO