**Ryan tan yan tong**

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Availability: 12 May 2025 – 12 Dec 2025

**education**

**National University of Singapore (NUS)** Aug 2022 - April 2026

**Double Degree Programme: School of Computing / School of Business**

* GPA: 5.0, 4.88
* NUS Merit Scholarship
* Competitions: Citadel Datathon 2024, Hack&Roll 2024, Eurasia Asset Management (Finalist), SMU Future Economy Forum Case Competition 2023 (Distinction)

**experience**

**AI Developer, SAP** May 2024 - Oct 2024

* Designed and Built 10+ front-end interfaces for custom in-house SAP applications using SAP UI5
* Designed and Integrated backend and frontend for custom AI-driven SAP applications using SAP CAP, Python Flask, Javascript
* Developed data pipelines for AI-driven products based on RAG, text embeddings and prompt engineering

**Teaching Assistant, National University of Singapore (NUS)** Jan 2024 - May 2024

* Led laboratory sessions consisting of a group of 20 students for CS2040 (Data Structures and Algorithms) with vibrant discussions for possible algorithms used to tackle various problems
* Clearly explained and broke down complex concepts in data structures (e.g. arrays, linked lists, trees, graphs) and algorithms (Sorting, SSSP, MST)

**Orbital Project, Apollo 11 Achievement Level** April 2023 - Aug 2023

* NUS Timetable Optimizer done for Orbital project (Apollo 11)  
  (<https://github.com/RyanTYT/ClassMate>)
* Developed website whereby users can input which courses they are taking for the semester to generate a working timetable with personal constraints (z3-solver)
* Developed using Typescript, Reactjs and Nextjs for frontend and Nodejs and Sequelize for backend

**projects**

* NUS HackNRoll 2025 Most Entertaining Hack Winner (<https://github.com/RyanTYT/Love-Bets>)
* Discrete Event Simulator built to schedule waiters and customers for NUS course - CS2030 (<https://github.com/RyanTYT/NUS-CS2030-Discrete-Event-Simulator>)
* Automated fetching of financial statements from sec website to an excel worksheet using Python ([https://github.com/RyanTYT /Automated-Financial-Statements](https://github.com/RyanTYT%20/Automated-Financial-Statements))
* Applied machine learning algorithms to balance sheets (<https://github.com/RyanTYT/Machine-learning-for-balance-sheets>)

**EXTra co-curricular activities**

**Senior Analyst, Business Analytics Consulting Team** Jan 2024 - April 2024

* Developed machine learning models based on ARIMA and SARIMAX to predict crop yields

**skills and interests**

* Languages: English (Written and Spoken, Native), Mandarin (Written and Spoken, Mother Tongue)
* Programming Languages: Python, R, Java, Typescript, Javascript, ReactJS, Nextjs, PostgreSQL, MySQL, C++
* Interests: RC4 Flag 2024 Project Director, RC4 Programmes Head, RC4 Invest EXCO, RC4 CASA EXCO