

Rachmiel Teo (Singaporean)

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EDUCATION

Nanyang Technological University (NTU)

Aug 2023 – May 2027

- Bachelor of Computer Science and Economics (Double Degree)
- Dual First Class Honours, Cumulative GPAs: 4.70/5 and 4.77/5
- Undergraduate Researcher (URECA)
- Recipient of School Scholarship

Nanyang Junior College (NYJC)

Jan 2019 – Dec 2020

- 5 Distinctions, 88.75/90 Rank Points (GCE 'A' Levels)

WORK EXPERIENCE

Grace Orchard School, ICT Executive

May 2023 – May 2025

- Developed a chatbot for a robust Leave Notification System, utilizing Twilio's API for Whatsapp and Microsoft Graph API, streamlining communication by forwarding messages to superiors and reducing manual effort for users to notify multiple people, improving efficiency and saving time.
- Developed a full-stack web application using React and Express to track ICT equipment, replacing manual book logging and introducing features for registering, loaning, returning, and decommissioning over 500 devices while tracking individual loan history for both devices and users, improving transparency and management.
- Coded a VBA script to Mail Merge details of hundreds of students into separate PDFs, boosting efficiency by over 500%.
- Wrote Powershell scripts to push Windows Updates and Scheduled Restarts for users' computer through a Remote Device Management platforms.

EXTRACURRICULAR ACTIVITIES

NTU Investment Interactive Club

Invest Academy Director

Aug 2024 – May 2025

- Delivered and led comprehensive lessons on macroeconomics and market cycles, educating and engaging over 200 students to enhance analysts' financial literacy and market understanding.

NTU Investment Banking Club

Analyst-in-Training (Sales & Trading Portfolio)

Aug 2023 – May 2024

- Underwent training in technical skills and knowledge in financial products such as commodities, equities, interest rate and credit derivatives and foreign exchange.

Projects

- URECA Research Program – Conducted research on Uncertainty Quantification in Financial Time Series using Conformalized Risk Modeling. Implemented CatBoost, LightGBM, LSTM, GRU and Transformers to perform conformal prediction, developing a custom conformal loss function to optimize prediction intervals and enhance model reliability.
- Developed and deployed a Python script to pull 2s5s bond yield spread data for over 50 countries into a Postgres database, updating in real time every minute, utilizing Looker Studio for database connection and dashboard integration.

Hackathons

- 2025 – Champions of DSTA BrainHack 2025: TIL-AI, fine-tuning deep learning models using PyTorch to process audio, text, and image data. Explored techniques for optimizing model performance and improving multimodal data interpretation. Awarded with \$5,000 cash prize.
- 2024 – Competed in the UBS Global Coding Challenge, solving algorithmic and data structure challenges

AWARDS AND ACHIEVEMENTS

NTU

2025

- URECA Poster Competition Winner

Saint Joseph's Institution (SJI)

2018

- Captain of Gymnastics School Team - 3rd Place, National B Division Trampoline Championships
- 4S4 Award Recipient - Accolade presented annually to two Secondary 4 students in recognition of exceptional excellence in Mathematics and Science, with a \$1,000 grant.

LICENSES AND CERTIFICATIONS

- Certified Cisco Network Associate
- AWS Certified Cloud Practitioner

Mar 2023 – Mar 2026

Mar 2023 – Mar 2026

ADDITIONAL INFORMATION

Technical Skills: Python, Pytorch, Tensorflow, SQL, MongoDB, Java, C++, C, Postgres, ElasticSearch, Linux CLI, React, Express, Docker, VBA

Language Proficiency: Fluent in English and Mandarin

Hobbies: Football, Tennis, Cubing

Academic Interests: Data Analysis, Machine Learning, Mathematics, Financial Markets, High Frequency Trading