

CHAN RYU

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EDUCATION

Singapore Management University, Singapore **Aug 2026 - Aug 2030**
Bachelor of Science (Computer Science) *cGpa:-*

Temasek Polytechnic, Singapore **Apr 2021 – Apr 2024**
Diploma in Applied Artificial Intelligence with Merit, Valedictorian *cGPA: 3.91*
*A*Star Science Award (2022), Director's List (AY 21/22, AY 22/23)*

WORK EXPERIENCE

DOTC **Jan 2026 – May 2026**

Product Operations (Pinpoint)

- Managed retention statistics in **Google Sheets** to track user engagement and support product insights
- Assisted in training face data of SAF KAH for the facial recognition system using **AWS Rekognition**
- Conducted **post-update QA** to identify, document, and escalate bugs before production release

A*STAR **Sept 2023 – Aug 2024**

Research Assistant

- Built **GANs** with **TensorFlow / PyTorch** to generate synthetic data from private medical datasets
- Developed **NER** and **RE** models using the **N2C2 dataset** for medical chart analysis
- Implemented a **RAG** pipeline to improve **LLM** responses for Singapore building specifications queries
- Developed a **Gradio** front-end interface to demonstrate and interact with LLM pipelines

PERSONAL PROJECTS

TraceGlow: Strava Heatmap Generator **2026**

- Built a Strava heatmap generator using **React, FastAPI, SQLite & Leaflet** for personal heatmaps
- Implemented filtering by activity type, country, date, and map area for targeted heatmap generation.

TypeSense: Typing Practice & Analytics Platform **2026**

- Built a typing app using **React & Supabase**, with real-time WPM, accuracy tracking and user history
- Developed analytics dashboards, leaderboards, and AI feedback from user typing records.

RiftBalance: League of Legends Custom 5v5 Matchmaking & Elo Tracker **2024**

- Built a **Python**-based Elo system using match records and TrueSkill 2 formulas to adjust player ratings
- Developed a **Python** matchmaking algorithm to balance 10-player lobbies using player ratings

COMPETITIONS

LAW4U – SMU LIT Hackathon (1st Runner Up) **July 2023**

- Built a **Telegram** chatbot utilising **OpenAI API** to answer user questions on Singapore law
- Developed a **Kotlin** Android app providing accessible information on common legal procedures

CLUBS & SOCIETIES

Applied Artificial Intelligence Student Interest Group

Advisor & President

Apr 2022 – Apr 2024

- Guided junior committee members, ensuring a seamless transition into their roles
- Led a team of 10 to spearhead workshops and initiatives for the Diploma of AAI

SKILLS

Programming Languages: Python, Kotlin, JavaScript, Java, HTML, CSS

Frameworks & Tools: UiPath, AWS, Adobe XD, KNIME, Microsoft Excel

Professional Certifications: AI Ethics & Governance (Associate), AI4I Foundations, AI4I Literacy, KNIME L1