

# Harry Chandra Tsjan

harrychandratsjan@gmail.com | +60-132856188 | | <https://github.com/h4r1yzz>

## Education

University Tunku Abdul Rahman, B.Sc. in Software Engineering

Oct 2021 - Oct 2024

## Experience

Data Science Intern, RosaryLabs

Mac 2025 – Aug 2025

- Designed and implemented a search engine workflow leveraging Model Complex Protocol (MCP) for dynamic tool selection and multi-turn reasoning, improving query accuracy and adaptability for complex use cases.
- Applied DeepEval framework and custom evaluation metrics to assess Large Language Model (LLM).
- Implemented Qdrant vector database and experimented with sparse embedding models to enhance Retrieval-Augmented Generation (RAG), boosting retrieval efficiency and relevance in prototype systems.

Software Engineer Intern, Consolsys

Oct 2024 – Jan 2025

- Migrated large dataset from MSSQL to PostgreSQL, and improved optimized queries to display on Stimulsoft Reports, delivering accurate and streamlined reports for stakeholders
- Implemented seamless Stimulsoft report integration into the Teller system using Angular and C#, improving UI usability and reducing report generation errors by 20%.
- Developed a reliable data routing process to log and journal all completed transactions in the local database, ensuring 100% data accuracy and audit readiness.

Web Developer Intern, Strattonshire Venture

Oct 2023 – Jan 2024

- Developed an Administration System using Laravel and MongoDB to automate routine administrative tasks, reducing manual workload by 40%
- Partnered with frontend developers to implement system updates and resolve support tickets.

## Projects

StockVision | Streamlit, Python, LLM, ML

- Enhanced a few-shot learning model to classify sentiment from news and social media for stock insights.
- Implemented a system to display live stock prices and percentage changes.
- Integrated Ollama to generate stock charts and provide buy/hold/sell recommendations.

ICraft | Flutter, Firebase, ML, Python

- Created a crafting app with step-by-step guides, creative collection, and personalized recommendations for DIY projects.
- Integrated a wishlist feature and user feedback system to enhance user experience.
- Implemented a TF-IDF and cosine similarity-based recommendation engine, increasing relevance of item suggestions by 35%.
- Flutter sends user preferences and behavior data to the Python backend via an API, which processes the data, runs recommendation algorithms, and returns personalized suggestions to the app.

## Technologies

**Programming:** Python, SQL, NoSQL, C#, Java, JavaScript, Dart, Spark

**Technologies:** MSSQL, PostgreSQL, AWS EC2, Git, Azure Data Studio, Tableau, Snowflake, Docker, Azure, Airflow, DBT

**Languages:** English (Fluent), Chinese (Fluent), Malay (Fluent)

## Certification

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AWS Cloud Practitioner Foundational	Dec 2024
NVIDIA Fundamentals of Deep Learning	Dec 2024
First Runner-Up, ASEAN AI Malaysia Summit Buildathon	Oct 2025