RYAN MIGUEL MORALDE SIA

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EXPERIENCE

Goodpack IBC (Singapore) Pte Ltd   **Jun 2024 – Aug 2024**
Information Technology Intern
- Conducted research on graph databases, its capabilities and use cases
- Brainstormed graph data models for business use cases and implemented them in Neo4j
- Carried out exploratory data analysis on historical container scan data dating back twelve months, numbering tens of millions of nodes and relationships
- Presented findings to business teams to demonstrate use case for operations
- Redesigned IT team's SharePoint site over multiple design iterations to improve UX for internal users

Full-Time National Service   **Jan 2020 – Nov 2021**
Combat Medic, Selarang Medical Centre Sick Bay / Ambulance IC
- Ensured proper maintenance and upkeep of medical centre's sick bay and ambulances
- Assisted Treatment department in day-to-day duties, such as blood drawing (venipuncture) and vaccination
- Oversaw and participated in COVID-19 vaccination operations for critical operations and healthcare personnel in SAF Military Medicine Institute East Cluster at Selarang Camp

EDUCATION

Singapore Management University (SMU)   **Aug 2022 – Present**
Bachelor of Science (Computer Science)
- Expected Graduation Date: **05/2026**
- Artificial Intelligence Track
- Modules completed: Data Management, Collaborative Software Development, Software Product Management, Data Structures and Algorithms, Statistical Thinking for Data Science, Introduction to Artificial Intelligence, etc.

Saint Andrew's Junior College (SAJC)   **Feb 2018 - Nov 2019**
Singapore-Cambridge GCE 'A' Level

PROJECTS

Grouping Algorithm (Personal Project)   **Aug 2024**
- Wrote and developed a web application that groups attendees together based on historical grouping data, which aims to minimise grouping individuals with others they previously have been grouped with
- Implemented with greedy algorithms, along with a basic Flask/Bootstrap front end, and developed collaboratively with peers
- Added new features over various iterations to meet specific needs of application users

BOSS Bidding Regression Analysis   **Oct 2023**

- Web application that takes course enrolment bidding results from SMU's Bidding Online System (BOSS) and performs regression analysis that attempts to predict how bid prices might change in the future based on past data
- Written in Python, using scikit-learn for regression analysis and Streamlit for deployment

SMU Libraries' Generate Your L(AI)brary Hackathon   **Aug 2023**

- Team placed 3rd out of 11 teams
- 2-day hackathon organised by SMU Libraries to ideate and develop AI-driven solutions to improve the library research experience
- Team's solution was a chatbot powered by OpenAI's GPT 3.5-turbo to help users find relevant research resources in SMU Libraries' databases
- Written in Python, using LangChain to let the GPT access SMU Libraries databases and Streamlit for deployment and frontend

CO-CURRICULAR ACTIVITIES / COMMUNITY SERVICE

SMU Fides (Catholic Community)   **Aug 2022 - Present**

AV Team

- Participated in sessions, rendered audio-visual assistance through coordinating slideshows and audio mixing for sessions and mentored newer members of the team

SMU Project Rhize 2   **May 2023 - Jan 2024**

Events Director

- Planned and facilitated guided nature walks and a panel discussion on biodiversity in Singapore

SMU Stereometa   **Jan 2023 - Dec 2023**

Events Director

- Coordinated with liaisons for school events and judged club members' mixes for internal competitions and choosing which members to send for gigs and performances

SKILLS

Programming Languages

- Python
  - Data Science and Visualisation, Machine Learning and LLM libraries
- Java
- SQL

Data Visualisation

- Tableau

Project Management

- Jira/GitLab

NoSQL Databases

- MongoDB
- Neo4j Graph Database

Certifications

- Google Data Analytics Professional Certificate