**OWEN TAN KENG LENG**

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**education**

**National University of Singapore Aug 2022 - May 2026**

**Bachelor of Science in Data Science and Analytics (Honours) with 2nd Major in Computer Science**

* 2nd Major in Computer Science
* Grade Point Average: 4.82/5.00 (Expected Honours with Highest Distinction)
* Attained Dean's List for AY2023/2024 Semester 1 & Semester 2 and Top Student for Data Structures and Algorithms
* Relevant Coursework: Data Science in Practice, Machine Learning, Information Retrieval

**work experience**

**DBS Bank, Data Science Intern May 2025 - Aug 2025**

**Shopee, Business Analytics Intern Jan 2025 - Apr 2025**

* Developed a robust scoring system for detection of similar product names using Natural Language Processing techniques
* Engineered and optimised complex SQL queries to answer business questions using window functions and CTEs
* Constructed and monitored 2 Data Dashboards containing key metrics required for various projects in Regional Operations department

**SATS Ltd, Data Scientist Intern Aug 2024 - Dec 2024**

* Employed DeBERTa LLM on Hugging Face to categorise text into 10 different categories, utilising MLflow to log metrics during model fine-tuning process and achieving 85% accuracy
* Deployed an end-to-end workflow and implemented Genetic Algorithm in Python to automate optimisation of baggage allocation, reducing planning time spent by over 50%
* Digitalised storage of important documents by utilising Microsoft Azure services, cutting paper usage to 0% and cost by over 20%

**project experience**

**ESG Analysis Platform for Banking Sector – JavaScript, React, Express, JWT, Docker Jan 2025 - Apr 2025**

* Developed a scalable ESG platform using React, Express, and JWT, enhancing data-driven decision-making for sustainable banking practices
* Designed and deployed MongoDB and PostgreSQL databases using Docker containers for efficient data management
* Implemented a recommendation system using collaborative filtering, improving user engagement
* Built secure RESTful APIs with Axios for seamless data exchange between front-end and backend services

**Shopee Refund Policy Question-Answering – Python, Selenium,** **Ollama, Langchain Dec 2024 - Jan 2025**

* Made use of Ollama to download and prepare Mistral Large Language Model (LLM) for Question-Answering purposes
* Utilised Selenium to scrap Shopee’s Refund Policy off website to be input as model’s context when answering question
* Implemented Retrieval-Augmented Generation (RAG) to feed most relevant chunks of information into LLM for better responses

**PROFESSIONAL certifications**

* **Google**: Google Cloud Certified Professional Machine Learning Engineer
* **AI Singapore**: Student Outreach Programme Level 3 (Highest Achievement)
* **Databricks**: Data Engineering with Databricks
* **DataCamp**: Containerization and Virtualization with Docker and Kubernetes Skill Track

**technical skills**

* **Cloud Computing Platforms:** Google Cloud Platform, Microsoft Azure, Databricks
* **Programming Languages**: Python, Java, JavaScript, SQL, R
* **Data Visualisation Software**: Power BI, Tableau
* **Libraries & Tools**: LangChain, Transformers, Hugging Face, re, SpaCy, NLTK, Scikit-learn, Tensorflow, Keras, PyTorch, Pymoo, NumPy, Pandas
* **Containerisation & Orchestration**: Docker, Kubernetes

**leadership experience**

**Marketing Head, NUS Science Welfare Subcommittee Sep 2023 - Sep 2024**