James Liang

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EDUCATION

Monash University — Melbourne, Vic

Bachelor of Computer Science and Commerce, Major in Data Science and Econometrics — 2022 - 2025
- GPA: 4.0/4.0, WAM: 87.472
- Achievements: Monash IBL Scholarship (2024), Unit Prize in ETC2420 Statistical Thinking (2023)

Huntingtower School — 2021
- ATAR: 99.35 — Achievements: Academic Honours (2021), Dux of Further Mathematics (2020)

EXPERIENCE

Commonwealth Bank

Data Science Intern — Nov 2024 – Jan 2024
- Deployed end-to-end binary classification model to predict customer complaints, achieving up to 72% precision and resolving over 100 complaint scenarios per month.
- Feature Engineered to enhance model performance through iterative development and data-driven insights.
- CBA HackFest Finalists - Developed the Banking Advisor Assistant with Retrieval Augmented Generation (RAG)

Coles Group

Data Science Intern — Jul 2024 – Nov 2024
- Reduced Analytics report runtime by over 70% using new data pipelines and code refactoring with PySpark API.
- Leveraged Large Language Models to improve keyword matching for Coles search experience.
- Improved Coles search metric reliability by identifying and resolving data capture inconsistencies.

CSIRO's Data61

Vacation Research Intern — with Dr Hui Zheng — Nov 2023 – Feb 2024
- Developed an application to accurately arrange documents into topic hierarchies, using Python and OpenAI API.
- Improved recall and precision by up to 3% against competing research papers, emulating test environments.

COMMUNITY & LEADERSHIP

Computing Commerce Association (CCA)

Publications Director — Aug 2023 - Sep 2024
- Increased member base by over 15% through initiatives such as the Newsletter Relaunch. Supported cross collaboration across team portfolios by setting up the new Notion Workspace.

180 Degrees Consulting

Project Consultant — Volunteering with Red Nose Australia — Feb 2023 – Jul 2023
- Supported non-for-profit organisation by designing the Red Nose App. Awarded Best Content and Best Speaker.

PROJECTS

TopicGemini | *Python, Topic Modelling, Langchain, Embeddings, Kmeans Clustering* — **Github**
- Developed an application using Python that automatically extracts topics from newspaper articles, using Gemini API, vector embeddings and k-means clustering.

The-Rising-Tennis-Star | *Python, Pandas, Regressions, Principal Component Analysis (PCA)* — **Read Online**
- Advanced Analytics uncovering patterns behind player performance, trajectories, and the factors influencing success at the highest level.

Finding-Water | *R, Data Analysis, Predictive Modelling* — **Read Online**
- Conducted data analysis and fine-tuned ensemble models, achieving top 10% accuracy in a Kaggle competition.

ADDITIONAL INFORMATION

Languages: Python, SQL, R
Volunteering: Monash Open Day Bootcamp Tutor (Python), O-Week Volunteer