

# 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

- Developed 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