



SUMMARY

An enthusiastic **Master student** with an Engineering background, Mason is passionate in uncovering valuable insights hidden within data. He is a dedicated team player, hardworking and always eager to learn. Mason is currently seeking an opportunity to further grow and leverage his analytical skills in a dynamic environment, aiming to contribute to data-driven decision-making and innovative solutions.

SKILLS

- **Programming Language:** Python, R, SQL
- **Big Data:** Hadoop, Studio3T
- **Machine Learning:** Regression, Classification, Clustering
- **Data Analysis:** numpy, pandas, tidyverse
- **Database:** MySQL, MongoDB
- **Deep Learning:** CNN, YOLO, RNN, LSTM, Transformers
- **Data Viz:** Power BI, dash, plotly, seaborn
- **Cloud:** GCP, docker, vercel
- **ML libraries:** scikit-learn, xgboost, tensorflow

WORK EXPERIENCE

[Others >>](#)

Pricing & Fairness Laboratory, Taiwan Tech | Research Assistant

Taipei, Taiwan | 03/2023 - 08/2023

- **Reduced overall research time by 5%** through **data mining** and **scraping** using **Python** and **R**.
- Collected & assessed product performance metrics including SEO, GoogleTrends, WebTraffic, Marketplace vendors.
- Analyzed marketing data, produced **visualized reports** and derived important insights to help progressing the research.
- **Collaborated** with supervisor & lab mates to **integrate research findings** into ongoing projects, **increased the research output by 10%**.

Skills: Data Scraping, Data Manipulation, Descriptive Analysis, Market Research, Customer Behavior, Teamwork

Compal Electronics | Project Management Intern

Taoyuan, Taiwan | 07/2021 - 08/2021

- **Communicated & collaborated** with different functional teams to determine & overcome bottlenecks, maintain production line output.
- **Maintained & updated** multiple project **Excel documentation** to track progression and shipping status.
- Completed a notebook **pilot project in time** with **700% increased in testing unit quantity** and **10% lack of material**.

Skills: Project Management, Communication, Problem-Solving, Documentation, Excel, pivot, vlookup, Data Aggregation.

PROJECTS

[Others >>](#)

Intel Image Classification | Python, Deep Learning

- Manually built a CNN model to classify 25k+ images with high visual similarity, applied **hyperparameter tuning**, **data augmentation**.
- Leverage pre-trained architectures for transfer learning, achieved 90% accuracy score and reduced training time by 60%.
- **Skills:** Tensorflow, keras-tuner, Convolutional Neural Network, MobileNet, VGG16, Resnet50, Transfer Learning, Error Analysis

Global Disaster Dashboard | Python, dash, Cloud Run

- **Winner** at Macquarie DataViz Challenge 2024 for the **Best Interactive Visualization**.
- **Led** a team of 4 data analysts to design, build and deploy an dashboard app focuses on raising SDG awareness.
- Built with **Python** and **dash**, deployed on **Render & GCP**, available for both **desktop and mobile** devices.

Skills: dash, GCP, Docker, html, css, Data Visualization, Leadership, Teamwork, Communication

Data analysis and outcome prediction of SpaceX Falcon9 rocket launches | Python, ML Classification

- Utilized **API (requests)** and **web scraping** techniques (re, **BeautifulSoup**) to gather 10 years of launches data.
- Generated data visualization with **dash**, **matplotlib**, **seaborn** and **folium**, **accelerate decision-making processes by 20%**.
- Built **classification models** to determine the outcome of rocket landing with the top **prediction score of 89%**.

Skills: SQL, pandas, numpy, scikit-learn, GridSearchCV, Logistic Regression, SVM, Decision Tree, kNN, MLP, xgboost, Model Tuning.

AtIQ sales data analytics & visualization | SQL, PowerBI

- Administrated **MySQL database** using **DBeaver** to support real-time data analysis & streamline data processing workflows.
- Performed **data mining**, **modeling** and applied **SQL** for **exploratory analysis** on a dataset of **148,000** records, assisting stakeholders in **identifying 02 significant sales bottlenecks**.

Skills: Business Intelligence, DAX, MySQL, Database management, ETL, Dashboard, Data Analysis.

EDUCATION

Macquarie University | Master of Data Science

Sydney, Australia | 02/2024 - 12/2025

- **Courseworks:** Statistics, Big Data, Advanced Machine Learning, Deep Learning, Python programming.
- Average Grade (WAM): 87.75, **High Distinction**.
- Active member of the **Macquarie Business Analytics club**, the **Statistical Society of Australia**

National Taiwan University of Science and Technology | Bachelor of Science

Taipei, Taiwan | 09/2019 - 08/2023

- **Mechanical Engineering** concentration, minored in Marketing (Research & Analytics).
- Taiwan Ministry of Education (MOE) **Excellence scholarship** (2019-2023)
- **Vice President** of the Vietnamese Student Association.

COURSES & CERTIFICATIONS

- IBM **Data Science** Professional Certificate
- UC Davis **SQL for Data Science**
- Google **Data Analytics** Professional Certificate
- Google **Digital Marketing & E-commerce** Certificate