

SUMMARY

An enthusiastic **final-year Master student** with an **Engineering background**, who is a dedicated **team player, hardworking**, and always **eager to learn**. Proficient in **Python, SQL, data visualization** and various **machine learning** techniques, Mason is **currently seeking an opportunity** to further grow and apply his skills, aiming to become a leading data scientist, driving impactful insights through innovative analytics and machine learning solutions.

SKILLS

- **Programming Language:** Python, R, SQL
 - **Libraries:** numpy, pandas, tidyverse
 - **Data Viz:** Power BI, dash, plotly, seaborn
 - **Statistics:** Stat Inference, Hypothesis Testing
- **Big Data:** Hadoop, Studio3T
 - **Database:** MySQL, MongoDB
 - **GCP:** Cloud Run, Big Query, Vertex AI
 - **Version Control:** Git
- **Machine Learning:** Regression, Classification, Clustering
 - **Deep Learning:** CNN, YOLO, RNN, MLP, Transformers
 - **ML modules:** scikit-learn, TensorFlow, xgboost
 - **MLOps & Deployment:** Docker

WORK EXPERIENCE

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- 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 performance metrics of **150+** products through **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: Excel, Data Scrapping, Data Manipulation, Descriptive Analysis, Market Research, Customer Behavior, Teamwork
- Compal Electronics | Project Management Intern

Taipei, Taiwan | 07/2022 – 09/2022

 - **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% increase in unit quantity** and **10% lack of material**.

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

PROJECTS

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- Intel Image Classification | Python, Deep Learning | [Link>](#)

 - Manually built a CNN model to classify 25k+ images with high visual similarity, applied **hyperparameter tuning**, **data augmentation**.
 - Leverage pre-trained architecture 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 | [Link>](#)

 - **The Winner** at Macquarie University DataViz Challenge 2024 for the **Best Interactive Visualization**. | [Link>](#)
 - **Led** a team of 4 data analysts to design, build and deploy a dashboard app focuses on raising SDG awareness.
 - Built with **Python** and **dash**, version control with **Git**, deployed on **Cloud Run**, 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 Falcong rocket launches | Python, ML Classification | [Link>](#)

 - 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 prediction score of **89%**.

Skills: SQL, pandas, numpy, scikit-learn, GridSearchCV, Logistic Regression, SVM, Decision Tree, kNN, MLP, xgboost, Hyperparameter Tuning
- AtliQ sales data analytics & visualization | SQL, PowerBI | [Link>](#)

 - Administrated **MySQL database** with through DBeaver to monitor status, fix data errors and check data manipulation progress.
 - 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

 - **Coursework:** 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 (Pricing & Analytics)
 - Taiwan Ministry of Education (MOE) **Excellence scholarship** (2019-2023) | [Link>](#)
 - **Vice President** of the Vietnamese Student Association, secured sponsorship funds equivalent of **\$US18,000** for student activities | [Link>](#)

COURSE & CERTIFICATION

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- Google **Machine Learning on Google Cloud** specialization | [Link>](#)
 - Google **Data Analytics** professional certificate | [Link>](#)
- Microsoft **PowerBI** data analyst | [Link>](#)
 - Google **Digital Marketing & E-commerce** certificate | [Link>](#)

LANGUAGES

English (Professional), Chinese (Basic), Vietnamese (Natural)