

# Sihui Feng

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## PROFILE

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Results-driven Data Scientist with a passion for contributing to meaningful causes. Possess a strong desire to continuously learn new techniques and methodologies. Proficient in various data development and analysis techniques including Machine Learning, Deep Learning and NLP using Python and R. Experienced in SQL, AWS and Tableau, with a solid background in statistics. Seeking a data focused position where skills can be utilised to drive meaningful insights and personal and professional growth.

## SKILLS

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Python - Pytorch, Keras, Scikit-learn, Pandas, Numpy

SQL - MySQL, PostgreSQL

Tableau - Data Analysis and Visualisation, Reports and Dashboards

AWS - Database design, data modelling and structure design.

Machine learning and Deep Learning - Regression model, Logistic model, MLP, CNN, GNN, NLP, Multimodal model

## WORK EXPERIENCE

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### Data Scientist - Intern

Alphanest - Sydney

Jan 2023 – Present

- Design databases in AWS QLDB and RDS through data modelling and data structure design based on customer requirements for performance and reliability.
- Leverage python to develop APIs that streamlines the management, organisation, and interaction of AWS QLDB, resulting in increased efficiency and automation of the data processing and storage process.
- Develop a web application using Flask framework to create UI and connect to an AWS database for data storage and retrieval.
- Use of Python and Tableau to analyse and visualise data, uncover insights, and communicate key findings to stakeholders in a clear and compelling manner.

### Customer service – Part time

Woolworths - Sydney

Jul 2022 – Present

- Provide exceptional customer service by engaging with customers to understand their needs and concerns and offering tailored solutions.
- Utilise effective communication and interpersonal skills to build relationships with customers, establish trust and rapport, and drive loyalty and repeat business.

### Data Analyst - Intern

Youkuai International Holding Company Ltd - Shanghai, China

Nov 2020 - Feb 2021

- Built Tableau dashboard to visualise core business KPIs, including weekly profit, number of social media hits and activity participants.
- Conducted data pre-processing using python to establish the foundation for a new project by collecting raw data from various sources, dealing with missing values, and reformatting data.

## PROJECTS EXPERIENCE

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### Airbnb Rent Forecast

Oct 2022

- Conducted data pre-processing for all missing values and outliers, and selected input features by visualisation the relationship between features. Used NLTK to process and transform text input into digital information.
- Built regression models including XGBoost, Random Forest, Lasso regression, Stacking model, and chose the most suitable model through RMSE.
- Generated insights and presents actionable recommendations for rental pricing.

### Sports Competition Database Management System Construction

Jun 2022

- Performed data preparation by cleaning and transforming raw data before processing and analysis.
- Designed database structure on business models and requirements.
- Built a complete logical database of sports competitions using SQL scripts developed with PostgreSQL.
- Designed an UI that can interact with the database management system to enable data modification through Python DB-API.

## EDUCATION

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### University of Sydney

Master of Data Science, WAM: 80

**Sydney, NSW**

Dec 2022

### University of Sydney

Graduate Certificate in Data Science, WAM: 80.5

**Sydney, NSW**

Jan 2022

### University of Canberra

Bachelor of Information Technology, WAM: 81.813

**Canberra, ACT**

Aug 2021

- Dean's Excellence Award Semester 2, 2020
- Dean's Excellence Award Semester 2, 2019

## CERTIFICATES

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AWS Certified Cloud Practitioner

Dec 2022

Advanced Learning Algorithms certificate

Aug 2022

Supervised Machine Learning certificate

Jul 2022

## VOLUNTEER

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### SUPRA (Sydney University Postgraduate Representative Association)

Aug 2022 – Nov 2022

- Organised community activities for students, including communicating with students, providing feedback to the association, and designing and arranging activities.

## REFERENCES

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- Can be provided upon request.