

# Chaoran (Ryan) Que

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## EDUCATION

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**Master of commerce - Data Analytics & Digital Business (WAM 79/100)**  
University of Sydney

Mar 2021 – Mar 2023

**Bachelor of Engineering - Biological Engineering / Economics - Finance (Dual degree)**  
Shandong University

Sept 2015 – Jun 2019

## RELEVANT EXPERIENCE

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### **In-class Project: Digitalization of Australian Computer Museum Society Collection**

Mar 2021 – Jun 2021

- Collaborated with a team of 5 to analyse the need of clients and develop a complete business proposal to digitalize over 20,000 collections for ACMS. (HD in final grade.)
- Contributed to developing ERD for the data storage, optimizing the BPM to bring the estimated completion time down to less than 6 months, estimating and optimizing the total cost evaluation to be eventually less than 12,000AUD by collecting and analysing the market data.

### **Machine Learning Competition**

Aug 2021 – Nov 2021

- Led a team of 5 developing a price prediction regression model from a real dataset retrieved from Airbnb and won the 1<sup>st</sup> performance solution. (HD in final grade.)
- Be responsible for most part of EDA, feature engineering, and optimization of several models (XGB, LGBM, NN, model stacking). Also provided insights for iterating the whole process to enhance performance. ([Detailed summary blog link](#) on GitHub. Link to [Kaggle competition](#) page.)

### **Natural Language Processing Task Using Neural Network**

Mar 2022 – Jun 2022

- Led a team of 5 developing a book rating prediction model based on readers' review and summary. Received F1 score of 0.443 with 9000 samples trained. [Detailed summary blog link](#)
- Adopted a novel LSTM-CNN-ordinal regression structure. Be responsible for text pre-processing, feature engineering and optimisation of hyperparameters.

### **Student Consulting Project – Accelerating Digitalization**

Jun 2022 – Aug 2022

- Participated in a project sponsored by Macquarie Group to develop a solution to measure the impact of digitalization and subsequently motivate the digitalization progress. Nominated as the best solution among the peers.
- Participated in identifying the key metrics for measurement; Was responsible for developing a prototype and narrated relevant user journey to demonstrate the advantages and limitations.

### **Designing workplace using Agile methods**

Sep 2022 – Dec 2022

- Collaborated with teammates of different backgrounds, as well as the clients giving continuous responses, produced a satisfying prototype within 3 months.
- Used the Scrum framework and the tools of Trello and Planning Poker, practised the planning -> daily standup meetings -> review -> retrospective meetings iterations, the team improved significantly in communication, outcome quality, and efficiency.

## WORK EXPERIENCE

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### Part-time Content Researcher and Contributor

May 2023 – Oct 2023

#### Preface AI

- Stayed abreast with the latest technology trends and news (mostly about generative AI in NLP, image and audio), and explored related topics for video content creation.
- Completed 20+ high-quality video scripts with supporting visualizations. The content covers technology concept explanation, useful application, and business implication as most of the audiences are enthusiasts and novice practitioners.

### Individual Investment Advisor Assistant

Jun 2019 – Sept 2019

#### ZHESHANG SECURITIES CO., LTD.

- Helped in identifying the traits and selling point of certain financial products.
- Helped in maintaining customer relationship. Provided satisfying explanation of certain products to over 40 clients.

## EXTRACURRICULAR ACTIVITIES

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### Individual Game Development

Mar 2021 - now

- Using Unity and C# to develop a base building/Resource Management/Open world/Survival Game. Inspiration comes from Rim world, Dwarf Fortress, etc.
- Still in early stage while I am trying to integrate AI technologies into the game.

## SKILLSETS

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- Programming: **SQL** (Postgres, MySQL), **Python** (ML&DA-related libraries, basic algo.)
- Analytical Tools: **SPSS**, **Excel** (PrecisionTree, @Risk, Pivot table), **Tableau**
- Language: **English** (IELTS Band 8.0), **Mandarin** (Native)
- Cloud Platform: **Azure** (ML workspace), **IBM Cloud** (db2)
- Soft Skills: **Research & Problem solving**, **Collaboration**, **Adaptability**
- Certificates: **ITIL4 foundation**, **MS certified Azure Data Science Associate** (DP-100)