

Tay Xun Yang

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EDUCATION

National University of Singapore

Bachelor of Science in Business Analytics (Hons)

Aug 2020 – July 2023

Singapore

Ngee Ann Polytechnic

Diploma with Merit in Information Technology, Data Analytics Specialization

Apr 2015 – May 2018

Singapore

WORK EXPERIENCE

Ministry of Finance

Security & Resilience Intern

Nov 2022 – Dec 2022

Singapore

- Extracted and transformed data from multiple sources and loaded it into a central repository for analysis and reporting.
- Used Tableau to perform descriptive analysis on Singapore Government ICT expenditure to identify trends, relationships, opportunities for cost savings and efficiency improvements.

PSA Corporation Limited

Data Scientist Intern

May 2022 – Oct 2022

Singapore

- Utilized machine learning and natural language processing (NLP) techniques with Python to forecast SQL query resource usage and optimize database server performance.
- Designed and developed a Python-based auto-recovery program that automatically detects and rectifies job scheduling failures in real time.
- Applied statistical techniques and machine learning methods, such as clustering and outlier detection, to identify anomalies in datasets.

Motorist PTE LTD

Business Analyst Intern

May 2021 – Oct 2021

Singapore

- Built a VAR model to capture the dynamic relationship between COE and resale car value in Singapore.
- Developed a web scraping script using BeautifulSoup and Selenium to extract data from automotive websites.
- Built an ETL pipeline using Python and Google Cloud technologies to process datasets in batch mode.

PSA Corporation Limited

Data Analyst Intern

Mar 2017 – Aug 2017

Singapore

- Developed a Python script that performs data validation on the daily incoming files.
- Built and maintained PowerBI dashboards to provide real-time visibility into key business metrics and KPIs.

SKILLS

Data Visualization Software: D3.js, Google Data Studio, PowerBI, Tableau, Qlik Sense

Database: Google BigQuery, Hive, MongoDB, MySQL, SQL Server

Languages: English and Mandarin (Spoken and Written)

Technical Skills: Data Scraping, Machine Learning, Deep Learning, NLP, Time Series Analysis

Tools: Airflow, Docker, Git, Jira, Linux

Programming Skills:

- Python (BeautifulSoup, Matplotlib, NumPy, Pandas, Scikit-learn, Selenium, TensorFlow)
- Others (C#, CSS, HTML, Java, JavaScript(Vue), R.)

PROJECTS

Instagram Influencer Analysis

Dec 2021

- Scraped Instagram influencer posts with Selenium and built features from the textual data
- Trained a Machine Learning Model to classify posts as sponsored or not sponsored post

CERTIFICATIONS

Certificates: Deep Learning Specialization, Financial Market Analysis, Foundation of Marketing Analytics, Government Finance Statistics, Monetary Policy Analysis and Forecasting, Social Media Analysis using R.