

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, and opportunities for cost savings and efficiency improvements.

PSA Corporation Limited

Data Analyst 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.