Tay Xun Yang

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EDUCATION

National University of Singapore   **Aug 2020 – July 2023**
Bachelor of Science in Business Analytics (Hons)   *Singapore*
Ngee Ann Polytechnic   **Apr 2015 – May 2018**
Diploma with Merit in Information Technology, Data Analytics Specialization   *Singapore*

WORK EXPERIENCE

SAP   **Oct 2023 – Current**
Data Engineer   *Singapore*
- Used Python for web scraping on websites and social media platform, resulting in a significant increase in the client pool for sales targeting.
- Collaborated with a team of Data Engineers to migrate our local database to Microsoft Azure.

Ministry of Finance   **Nov 2022 – Dec 2022**
Security & Resilience Intern   *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   **May 2022 – Oct 2022**
Data Scientist Intern   *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   **May 2021 – Oct 2021**
Business Analyst Intern   *Singapore*
- Built a VAR model to capture the dynamic relationship between COE and resale car value in Singapore.
- Developed a web scraping script using Beautiful Soup and Selenium to extract data from automotive websites.
- Built an ETL pipeline using Python and Google Cloud technologies to process datasets in batch mode.

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.