DAN YI JIA

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SKILLS

- Languages: Python, SQL, R, HTML
- Data Visualisation Softwares: Power BI, Tableau, Google Looker Studio
- Libraries: Pandas, Numpy, Seaborn, Scikit-learn, Streamlit
- Others: AWS, Alteryx, Figma, Apache Airflow

COURSES & CERTIFICATES

- AWS Certified Solutions Architect – Associate
- Microsoft Power BI Desktop for Business Intelligence (Udemy)
- Google Professional Machine Learning Engineer Certification

WORK EXPERIENCE

TENCENT   **Jun 2025 to Current**
Data Science Intern
Mainly supported Dying Light: The Beast (Techland)
- Performed validation of telemetry data provided by game studios to aid in data analysis
- Answering studios' data questions to refine game better and performing data quality checks using BigQuery (SQL)
- Deployed and orchestrated data pipelines in Google Cloud Composer using Apache Airflow
- Developed a player experience analysis tool using Python, DeepFace, and MediaPipe to detect player cognitive states (e.g., Confusion, Focus) from video telemetry, enabling data-driven game design refinements beyond standard click-stream analytics

PRICEWATERHOUSECOOPERS (PWC)   **Jan 2024 to Sept 2024**
Data Analyst
- Automated data extraction from SQL server daily and output into Excel sheet with multiple tabs separated by statuses through Alteryx workflow creation
- Analysed service requests raised in system through Power BI dashboard creation
- Designed business process maps and business requirement documents
- Quality Assurance Testing of Power Apps

BANK OF SINGAPORE   **Jul 2022 to Dec 2022**
Financial Crime Compliance Intern (Innovation, Data Analytics & Technology)
- Performed anomaly detection of fraud by running, modifying, and enhancing Python scripts using Pandas

ERNST & YOUNG   **Dec 2021 to Apr 2022**
Tax Technology & Transformation Intern
1 out of 15 students picked for the Accounting Work-Study Data Analytics Internship with Ernst & Young
- Analysed and interpreted patterns and trends of tax components across 60 companies in Power BI dashboards
- Initiated use of Power Query to increase efficiency for a manual task given to transform PDFs into Excel data

EDUCATION

National University of Singapore (NUS)   **Jan 2025 to Jun 2026**
Master of Computing   **(Expected)**

Relevant Coursework & Technical Focus:
- **Algorithms & Systems:** Data Structures & Algorithms (Python), Computer Systems
- **Software Engineering**: Software Development & Application Architecture
- **Data & Distributed Systems:** Data Analytics, Hadoop, Spark, Distributed Systems
- **Cloud Computing:** Cloud Architecture & Deployment (AWS)
- **Security & ML:** Computer Security *(in progress)*, Machine Learning

Singapore Management University (SMU)   **Aug 2019 to Jan 2024**
Bachelor of Accountancy, 2nd Major in Accounting Data & Analytics (Merit)
- Recipient of SMU School of Accountancy Financial Scholarship 2020/2021, 2021/2022 & 2022/2023

Meridian Junior College (MJC)
- 1 out of 9 recipients of MOE AY2017 Pre-University ASEAN Scholarship for Malaysians

PROJECTS

Analytics of Relation between Awards Given and Creativity   **Aug 2025 to Jun 2026**
NUS MComp Capstone Project
- Developed script to extract relevant posts and comments to give out Reddit awards via PRAW
- Created automation to mimic human behaviour to give out Reddit awards via Playwright

ParkWise (Carpark availability web application)   **Aug 2025 to Nov 2025**
NUS Cloud Computing Project
- Connected AWS API to frontend and maintained frontend

EDA Dashboard
NUS IT5006 Introduction to Data Analytics Project   **Aug 2025 to Nov 2025**
- Designed and deployed an interactive Streamlit dashboard for exploratory data analysis, focusing on data cleaning, feature exploration, and insight communication

Part-Timer Profiling   **Jan 2023 to Apr 2023**
SMU Capstone Project
- Analysed & transformed data by running scripts on RStudio
- Visualised data of part-timers on Google Looker Studio

ADDITIONAL INFORMATION

Languages: Chinese (Native), English (Native), Malay (Intermediate), Japanese (Elementary)
Hobbies and Interests: Music, Table Tennis, Travelling, Self-Improvement