Daniel Tan

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EDUCATION

Universiti Tunku Abdul Rahman   Perak, Malaysia
Bachelor of Computer Science   Jan 2019 - Jan 2022
Cumulative GPA: 3.83/4.0; First Class Honours Graduate and 9-time Academic Honours Recipient.

WORK EXPERIENCE

AEON DIGITAL BANK (Malaysia's First Islamic Digital Bank)   Kuala Lumpur
Data Engineer II (formerly Data Analyst → Data Engineer I)   Jan 2023 – Present
Tech**:** Airflow, dbt, AWS (Redshift, S3), Docker, Python, Kafka, Github Actions, DataHub
- Designed and scaled end-to-end data pipelines for Regulatory Reporting, ERP, Treasury, and E-Invoice integration systems, ensuring high data reliability and compliance with BNM regulations for critical Finance, Treasury and Ops functions.
- Built fault-tolerant ETL pipelines using Airflow + dbt on AWS, automating ingestion, transformation, validation, and delivery across multiple internal and third-party-systems.
- Led full ownership of the ERP integration pipeline, collaborating heavily with Finance and Treasury to automate daily reconciliation and improve data accuracy, earning promotion to Data Engineer II.
- Independently developed a Kafka-based E-Invoice pipeline to send validated and formatted data to LHDN and stream its response data to backend systems.
- Created an internal Streamlit data tool automating Finance data uploads and refreshes into Redshift, cutting 60+ hours of manual work monthly and improving data freshness.
- Contributed to the data warehouse core layer redesign - encompassing standardized schema conventions, metadata fields, validation guidelines, and dbt best practices - ensuring traceability, consistency, and maintainability across the data warehouse.

DOCTORONCALL (Malaysia's leading Digital Health platform)   Selangor
Data Analyst   Feb 2022 – Dec 2022
Tech: GCP, BigQuery, Holistics.io, Looker Studio, Pandas, Airflow, Excel, Google Sheets, Google Analytics, Selenium
- Led and Managed the Data team, guided and upskilled 8 other analysts in both technical and soft skills, improving analytical efficiency and standardizing data processes across departments.
- Directly communicated with stakeholders from all departments to understand and translate business requirements into actionable items, streamlining the requirements gathering process of the team.
- Built dashboards to visualise core business KPIs, saving 43+ hours per week of manual reporting work. Wrote in-depth statistical and descriptive analyses & write-ups to analyse performance of campaigns and features, discovering insights and driving business decisions.
- Developed Python-based web scrapers to analyse and track 10+ competitors' pricing, increasing inhouse SKU count by 50%, making prices more competitive and assisting in pricing negotiations. (Replaced and automated 4 analysts' work, saved 300+ hours/week).

SETEL VENTURES SDN. BHD. (Mobile App for seamless refuelling and retail-on-the-go experience)   Selangor
Data Analyst Intern   Oct 2021 – Jan 2022
- Analysed transactional data systems and wrote detailed campaign data analysis - uncovering insights & spearheading business decisions for the Marketing team.
- Built a dynamic data tool using Python, SQL, Altair and Hex to help end users quickly obtain data tables and visualisations of the number of customers for each bin size.

PROJECTS

Local Data Lakehouse | Trino, Iceberg, MinIO, Airflow, dbt, Docker   Oct 2025
- Developed an end-to-end data lakehouse using Iceberg for table management, MinIO for object storage, Airflow + dbt for orchestration & ETL, and Trino as a query engine.

Real-time Lakehouse | Kafka, Spark, Iceberg, MinIO, Docker   Oct 2025
- Designed and implemented a real-time data lakehouse architecture integrating Kafka for event streaming, Spark for stream processing, Iceberg and MinIO for table management and storage, simulating live transaction data & scalable data processing.

ADDITIONAL

Certifications & Training: AWS Certified Cloud Practitioner | SQL for Data Analysis | Python Data Science & Visualisation
Awards: FWD Insurtech Hackathon 2022 Finalist | MSC Malaysia APICTA Awards Finalist 2021 | The Belt And Road Communication Award - The Tenth China Students Service Outsourcing Innovation and Entrepreneurship Competition 2020 (Link) | ASEAN Data Science Explorers 2020 Participant.

REFERENCES

Mr Cheok Huei Keat (Ex-Senior Data Engineer, Aeon Digital Bank) - cheok1997@gmail.com +6016 960 1687
Mr Lee Zhen Yong (Ex-Head of Analytics, DoctorOnCall) - bruceoutdoors@gmail.com +6016 318 8854