

Timothy Chen Xian Yii

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WORK EXPERIENCE

Shopee Mobile Sdn Bhd

Nov 2025 - Present

Chatbot Business Analyst

Kuala Lumpur, Malaysia

- Assisted in analysing chatbot performance and identifying areas for process or logic optimization.
- Supported documentation, testing, and cross-functional coordination for chatbot releases.
- Conducted basic data checks and insight gathering to support feature improvements and operational decisions.

X-Fab Sarawak Sdn Bhd

Aug 2024 – Oct 2025

Data Analytics Developer

Kuching, Sarawak Malaysia

- Took part in development of AI model to predict and resolve fab cycle time bottlenecks, aiming to enhance throughput and efficiency.
- Developed a Python-automated low-yield detection script with PDF reporting, and an RShiny web app for tool chamber analysis to streamline calibration and accelerate process matching in the new fab line.
- Built robust ETL pipelines (leveraging SQL/Python) for cycle time and yield optimization.
- Prototyped a scalable global wafer map storage solution using Snowflake, focusing on cost-performance tradeoffs.
- Conducted regular user acceptance testing (UAT) with engineering teams and collaborated with external consultants to align data solutions with critical process requirements.

Pandai Education Sdn Bhd

Jan 2022 – Mar 2022

Data Analyst Intern

Kuala Lumpur, Malaysia

- Extracted real-time data to build informative dashboards for end users, enabling clear visibility into key metrics and operational performance.
- Collaborated with cross-functional teams to analyse user behaviour, deliver actionable insights, and support data-driven decision-making across departments.

EDUCATION

Master in Data Science

March 2023 - Jul 2024

University of Malaya (UM)

Kuala Lumpur, Malaysia

- Pass with Distinction, CGPA: 3.98
- Research project: **Detecting Early Signs of Depression in Social Media Using Transformer Techniques**
 - Developed a Transformer-based LLM model using BERT architecture to detect depressive language patterns in Reddit posts, supporting early mental health
 - intervention through deep learning and advanced text processing

Bachelor of Science (Honours) in Industrial Statistics

August 2019 - July 2022

Sunway University

Subang Jaya, Selangor, Malaysia

- Graduated with CGPA 3.52 (First Class Honors)
- Research project: **Heart Disease Prediction Using Machine Learning Approach**
 - Built a supervised classification model using Logistic Regression, Decision Tree, and Naive Bayes to predict heart disease risk from patient health data, comparing model performance for optimal accuracy

CERTIFICATIONS & SKILLS

- Certifications**
 - Snowflake Data Engineer Training
 - Snowflake Hands-On Data Engineering Workshop
 - SAS Undergraduate Joint Certificate
- Programming & Tools:**
 - Python, R, SQL, SnowSQL, SnowPark, RShiny App Development, MSSQL, Docker, Snowflake, Git, Jenkins
- Core Skills:**
 - ETL Design, Machine Learning/Deep Learning, Text Analytics, Dashboarding, Data Visualization, Cloud Data Warehousing, LLMs modelling, CI/CD pipeline, App deployment