

# Timothy Chen Xian Yii

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## WORK EXPERIENCE

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### 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.
- Implemented CI/CD pipelines (Jenkins) to automate the deployment of RShiny applications and Python scripts, ensuring rapid feature delivery and stability.
- Conducted regular User Acceptance Testing (UAT) with engineering teams and collaborated with external consultants (YouThought) to align data solutions with critical process requirements.

### Pandai Education Sdn Bhd

Jan 2022 – Mar 2022

Data Analyst Intern

*Kuala Lumpur, Malaysia*

- Extract real-time data and build informative data dashboard for end user clients.
- Collaborate with other colleagues in providing insights to relevant departments to enhance decision making.
- Analyze and evaluate user behaviors through graphical visualization and convey information constructively.

## EDUCATION

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### 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

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- **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