

# Timothy Chen Xian Yii

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## WORK EXPERIENCE

<b>X-Fab Sarawak Sdn Bhd</b> Data Analytics Developer	Aug 2024 – Oct 2025 <i>Kuching, Sarawak, Malaysia</i>
<ul style="list-style-type: none"><li>▪ Took part in development of AI model to predict and resolve fab cycle time bottlenecks, aiming to enhance throughput and efficiency.</li><li>▪ 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.</li><li>▪ 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.</li><li>▪ Implemented CI/CD pipelines (Jenkins) to automate the deployment of RShiny applications and Python scripts, ensuring rapid feature delivery and stability.</li><li>▪ Conducted regular User Acceptance Testing (UAT) with engineering teams and collaborated with external consultants (YouThought) to align data solutions with critical process requirements.</li></ul>	

<b>Pandai Education Sdn Bhd</b> Data Analyst Intern	Jan 2022 – Mar 2022 <i>Kuala Lumpur, Malaysia</i>
<ul style="list-style-type: none"><li>▪ Extract real-time data and build informative data dashboard for end user clients.</li><li>▪ Collaborate with other colleagues in providing insights to relevant departments to enhance decision making.</li><li>▪ Analyze and evaluate user behaviors through graphical visualization and convey information constructively.</li></ul>	

## EDUCATION

<b>Master in Data Science</b> <i>University of Malaya (UM)</i>	March 2023 - Jul 2024 <i>Kuala Lumpur, Malaysia</i>
<ul style="list-style-type: none"><li>▪ Pass with Distinction, CGPA: 3.98</li><li>▪ Research project: <b>Detecting Early Signs of Depression in Social Media Using Transformer Techniques</b><ul style="list-style-type: none"><li>○ Developed a Transformer-based LLM model using BERT architecture to detect depressive language patterns in Reddit posts, supporting early mental health</li><li>○ intervention through deep learning and advanced text processing</li></ul></li></ul>	

  

<b>Bachelor of Science (Honours) in Industrial Statistics</b> <i>Sunway University</i>	August 2019 - July 2022 <i>Subang Jaya, Selangor, Malaysia</i>
<ul style="list-style-type: none"><li>▪ Graduated with CGPA 3.52 (First Class Honors)</li><li>▪ Research project: <b>Heart Disease Prediction Using Machine Learning Approach</b><ul style="list-style-type: none"><li>○ 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</li></ul></li></ul>	

## CERTIFICATIONS & SKILLS

<ul style="list-style-type: none"><li>▪ <b>Certifications</b><ul style="list-style-type: none"><li>○ Snowflake Data Engineer Training</li><li>○ Snowflake Hands-On Data Engineering Workshop</li><li>○ SAS Undergraduate Joint Certificate</li></ul></li><li>▪ <b>Programming &amp; Tools:</b><ul style="list-style-type: none"><li>○ Python, R, SQL, SnowSQL, SnowPark, RShiny App Development, MSSQL, Docker, Snowflake, Git, Jenkins</li></ul></li><li>▪ <b>Core Skills:</b><ul style="list-style-type: none"><li>○ ETL Design, Machine Learning/Deep Learning, Text Analytics, Dashboarding, Data Visualization, Cloud Data Warehousing, LLMs modelling, CI/CD pipeline, App deployment</li></ul></li></ul>	
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