

# Timothy Chen Xian Yii

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## WORK EXPERIENCE

<b>Shopee Mobile Sdn Bhd</b> Chatbot Business Analyst	<b>Nov 2025 - Present</b> <i>Kuala Lumpur, Malaysia</i>
▪ 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.	
<b>X-Fab Sarawak Sdn Bhd</b> Data Analytics Developer	<b>Aug 2024 – Oct 2025</b> <i>Kuching, Sarawak Malaysia</i>
▪ 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.	
<b>Pandai Education Sdn Bhd</b> Data Analyst Intern	<b>Jan 2022 – Mar 2022</b> <i>Kuala Lumpur, Malaysia</i>
▪ 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

<b>Master in Data Science</b> <i>University of Malaya (UM)</i>	<b>March 2023 - Jul 2024</b> <i>Kuala Lumpur, Malaysia</i>
▪ Pass with Distinction, CGPA: 3.98 ▪ 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>	
<b>Bachelor of Science (Honours) in Industrial Statistics</b> <i>Sunway University</i>	<b>August 2019 - July 2022</b> <i>Subang Jaya, Selangor, Malaysia</i>
▪ Graduated with CGPA 3.52 (First Class Honors) ▪ 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>	

## CERTIFICATIONS & SKILLS

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