

<p><b>Tan Yi Xin</b></p> <p>Address: No 4, Jalan Mutiara14, Taman Mutiara 2, 82000, Pontian, Johor</p> <p> : <a href="mailto:yixin1604@gmail.com">yixin1604@gmail.com</a></p> <p> : 017-750 4386     <a href="https://github.com/yixin16">github.com/yixin16</a></p>	<p> <b>Education Background</b></p> <p><b>Bachelor of Computer Science (Honours)</b> – CGPA: 3.63/4.0 (Universiti Tunku Abdul Rahman: 2022-2025)</p> <ul style="list-style-type: none"> <li>Focus: Artificial Intelligence, Deep Learning, Computer Vision</li> </ul> <p><b>Foundation in Science (Technological Science)</b> – CGPA: 3.66/4.0 (Universiti Tunku Abdul Rahman: 2021-2022)</p> <p><b>Malaysian Certificate of Education (SPM)</b> – 8As</p>
<p> <b>Technical Skills</b></p> <ul style="list-style-type: none"> <li><b>Programming Languages:</b> Python, Java, C++, JavaScript, PHP, R</li> <li><b>Machine Learning/ Deep Learning:</b> TensorFlow, PyTorch, Hugging Face, CLIP, YOLO</li> <li><b>Data Science &amp; Analytics:</b> Pandas, NumPy, Matplotlib, Scikit-learn, R</li> <li><b>Security Tools &amp; Concepts:</b> Kali Linux, Wireshark, Nmap, Network Protocols, Secure System Design</li> <li><b>Web &amp; API:</b> HTML5, CSS3, Flask, Odoo, PHP, AJAX, RESTful API, JSON</li> <li><b>Databases:</b> MySQL, MongoDB (NoSQL), ER Modeling</li> <li><b>Tools &amp; Version Control:</b> Git, GitHub, Docker (Basic), VS Code, Jupyter Notebook</li> <li><b>Concepts:</b> OOP, DSA, Agile Scrum, Secure System Design, Real-Time Computer Vision</li> </ul>	
<p> <b>Project Experience</b></p> <ol style="list-style-type: none"> <li><b>Real-Time Deep Learning-Based Face Detection and Recognition with Integrated Liveness Detection for Attendance System (FYP)   (2025)   Python, TensorFlow, Flask, OpenCV, Dlib, Mediapipe, SolvePnP</b>  <ul style="list-style-type: none"> <li>Developed a real-time facial recognition system with blink, smile, and head movement liveness detection.</li> <li>Implemented end-to-end pipeline for image processing, face detection, and attendance automation.</li> <li>Optimized model performance for low-latency real-time deployment.</li> </ul> </li> <li><b>Staff Uniform SOP Compliance Analysis   (2025)   Python, YOLOv11n, Swin-T, CLIP, OpenCV, Pandas</b>  <ul style="list-style-type: none"> <li>Built a hybrid deep learning pipeline: detect people → extract top-wear → classify uniform compliance.</li> <li>Applied few-shot learning with CLIP for dataset preparation and improved generalization on limited samples.</li> <li>Evaluated staff uniform compliance with Standard Operating Procedures (SOP) using visual analytics and report generation.</li> <li>Combined multi-model predictions to classify staff into compliant (polo/vest) or non-compliant categories.</li> </ul> </li> <li><b>Auto-Researcher AI: Autonomous Content Transformation Pipeline   (2025)   Python, PyTorch, Hugging Face Transformers, ffmpeg, Whisper, LLM (microsoft/phi-2)</b>  <ul style="list-style-type: none"> <li>Developed multi-agent architecture (Summarizer, Q&amp;A, Insight Extractor) orchestrated in a central pipeline.</li> <li>Automated audio extraction, transcription, and structured content generation from unstructured data.</li> <li>Enabled generation of slides, summaries, and Q&amp;A pairs automatically from YouTube videos.</li> </ul> </li> <li><b>AI Resume Analyzer with Job Street Job Matcher   (2026)   Hugging Face Transformers (4-bit quantized LLM for reasoning/analysis), Web Scrape (BeautifulSoup + Selenium), Playwright</b>  <ul style="list-style-type: none"> <li>Develop for resume parsing, skill extraction &amp; job matching.</li> <li>Integrated Job Street scraping to rank candidates against relevant job postings and generated structured CSV outputs for candidate-job matching scores and reports.</li> </ul> </li> </ol>	

 **Working Experience****Vision AI Developer**

*BlueTrack Analytics (Invoke) | 2025 - Present*

- Developed computer vision pipelines for CCTV surveillance analytics.
- Assisted in designing AI models for real-time object and behaviour detection.

**Software Engineering Intern**

*Axcell Solutions, Kampar, Perak | Oct 2024 – Jan 2025*

- Contributed to Loan Management System development on Odoo ERP.
- Collaborated in Agile sprints, conducted testing, and prepared technical documentation.
- Implemented modular features to improve system scalability and maintainability.