

# TAN Jun An

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## AI ENGINEER

AI Engineer specializing in LLM-powered healthcare systems, medical document understanding, and multi-agent workflows. Experienced in building production pipelines for structured extraction, document routing, parser evaluation, and Comprehensive Healthcare Report generation using LLMs, VLMs, OCR, LangGraph, and prompt/context engineering. Also experienced in computer vision systems, RAG prototypes, and edge-to-cloud AI deployment.

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## TECHNICAL SKILLS

**LLM & Agentic AI:** LangGraph, RAG/Agentic Search, Context/Harness Engineering

**LLM Ops & Evaluation:** Langfuse/LangSmith, Prompt Versioning, Evaluation Pipelines

**Models & Inference:** GPT, Claude, Gemini, Qwen, GLM, vLLM, Minimax, Kimi, Deepseek

**Document AI:** OCR, VLMs, Medical Document Parsing, MinerU, Docling, PaddleOCR-VL

**Computer Vision:** YOLO, DeepSort, Re-ID, OpenCV

**Cloud & Tools:** Docker, Kubernetes, AWS, SQL, Power BI, Git, Linux

**Programming:** Python, C++, Java, Kotlin, Flutter/Dart, Bash

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## PROFESSIONAL EXPERIENCE

### AI ENGINEER

Sep 2025 – Present

#### Wisdomleap Sdn Bhd - n1.care

- Built production LLM systems for healthcare document understanding, structured medical extraction, and Comprehensive Healthcare Report generation.
- Developed a medical document router that reduced downstream parser LLM calls by ~75% while maintaining extraction accuracy.
- Improved parser reliability through evaluation pipelines, biomarker deduplication, canonicalization, medication support, prompt engineering, and context engineering.
- Built a LangGraph-based multi-agent Healthcare Agent to generate Comprehensive Healthcare Reports from patient records, using agents for analysis, research, report generation, and validation.
- Benchmarked LLMs, VLMs, OCR, and document parsing tools including GPT, Claude, Gemini, Qwen, GLM, vLLM, OpenRouter, MinerU, Docling, PaddleOCR-VL, and olmOCR.
- Used Langfuse and LangSmith for observability, debugging, prompt iteration, and model comparison.

### AI ENGINEER (Part-time + Intern)

Sep 2023 – Aug 2025

#### QL Maxincome Sdn Bhd – FamilyMart Malaysia

- Architected & deployed a **Ready-To-Eat Product-Availability system** in 2 pilot stores; scalable rollout underway.
- Containerised inference services on **Kubernetes-on-AWS-EC2**; centralised GPU cluster avoids ~RM5 000 hardware cost per additional store.

- Built an **end-to-end data pipeline**—Edge → S3 bucket → Python ETL → PowerBI—providing managers replenishment KPIs.
  - Enhanced product-availability vision to estimate **Ready-To-Eat Product-fullness %**; reduced food-waste risk.
  - Implemented an **On-Shelf Availability detector** for empty-shelf alerts and a **Food-Fraud Detection** prototype for internal loss prevention.
  - Deployed an **Object-Counting system** measuring in-store & outdoor traffic; data feeds store-development site-selection models.
  - Explored cutting-edge LLM workflows, building a **Retrieval-Augmented Generation (RAG) assistant** with OpenAI & Gemini APIs (prototype stage).
  - Developed an **Object-Counting pipeline** (YOLOv8 + DeepSort + Re-ID) and **Cash-Transaction recognition** vision framework.
  - Engineered an autonomous **Shelf-Checking Robot** using ROS2 navigation and SLAM.
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## SELF-DIRECTED PROJECT

### HiVision Mobile Assistant

2025

- Developed an Android app in Flutter/Dart that streams ESP32-S3 camera frames to **Google Gemini LLM** → parses user intent → triggers structured **AutoGUI** actions for hands-free phone control.

### “Sibyl-like” AI System

2024

- Developed a multimodal pipeline—combining **Vision Transformer**—based visual feature extraction, **LSTM** temporal modeling, and auxiliary cues (emotion, pose, motion)— tested on the UCF Crime dataset in **distinguishing pre-crime behavior**.
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## EDUCATION

### Bachelor’s Degree in Computer Engineering (AI) UCSI University

Sep 2021 – Sep 2025

- CGPA 3.83
  - Dean’s List (all eligible semesters)
  - UCSI Trust Scholarship Recipient
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## EXTRACURRICULAR ACTIVITIES

### President – UCSI Wolverines Muay-Thai Club

2023 – 2024

- Managed 30+ members, organised inter-varsity competition & weekly training, coordinated coaches & committee.
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## LANGUAGES

English · Mandarin · Malay · Cantonese

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