

Chanut Wannasarnmetha

Applied AI Engineer & Builder

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Experience

Owner & Lead Developer — Fiar Design

2016–Present

Production e-commerce brand for automotive body kits | fiardesign.com | facebook.com/fiardesignshop (500K followers)

- *Built and manage the entire business:* product sourcing, branding, marketing, order fulfillment, and customer support.
- *Marketing & growth:* Facebook Ads, Google Ads, SEO, and AEO (Answer Engine Optimization) — driving organic and paid traffic to the storefront.
- *Website (self-built):* Next.js storefront with Sanity headless CMS, AI sales chatbot (OpenAI), dealer locator with interactive maps, live analytics dashboard, and SEO-tuned model pages.
- *Facebook community:* grew page to **500K followers** with organic content and targeted ad campaigns.

Tech: Next.js, React, TypeScript, Sanity CMS, OpenAI, Tailwind CSS, Vercel, Framer Motion, d3-geo

Selected Projects

SyncQ — LINE-first Booking SaaS

2025

Multi-tenant booking platform inside LINE messenger | private production

- Customers book through a LINE LIFF flow and pay via PromptPay QR slip upload — automatic payment confirmation with OCR.
- Each shop gets its own page, live calendar (FullCalendar), analytics dashboard (Recharts), and a support desk — all on one shared backend.
- Multi-tenant data isolation with Prisma + PostgreSQL (Supabase), rate limiting via Upstash Redis/QStash, email via Resend, error tracking via Sentry.

Tech: Next.js, React, TypeScript, Prisma, Supabase, LINE Bot SDK + LIFF, FullCalendar, Recharts, Upstash, Resend, Sentry, Playwright

ThaiEDA — Open-source AutoEDA for Thai Data

2026

PyPI package for automated EDA & data cleaning | github.com/peetwan/thaieda | PyPI

- One-line `run(df)` generates HTML reports with charts, missing-value analysis, outlier detection, and correlation matrices — all in Thai.
- Smart cleaning: Buddhist-era dates, Thai numerals, mojibake (ftfy), character encoding (chardet), Thai tokenization (pythainlp, nlpo3, attacut).
- **1,000+ tests**, CI/CD with ruff + pytest across Python 3.11–3.13. v2.3.0 on PyPI.

Tech: Python, pandas, numpy, scikit-learn, matplotlib, plotly, pythainlp, ftfy, rapidfuzz, Jinja2, hatchling

Basket Portfolio — Multi-asset Trading System

2025

Real-time trading fleet on Hyperliquid DEX | pulsesignal.xyz

- Seven-service architecture: execution engine, signal scanners, market regime detector, bot proxy, basket manager, AI analysis module, and a React/Vite dashboard.
- Backend in Python (Flask + FastAPI) with PostgreSQL; direct integration with Hyperliquid DEX API for real-time order execution.
- Frontend dashboard with Vite + React + Tailwind, LCD-style market displays, and PDFM API integration.

Tech: Python, Flask, FastAPI, React, Vite, TypeScript, Tailwind, PostgreSQL, Hyperliquid API

Hackathons & Technical Projects

SenseFlow — Edge-AI Desk Companion

2026

Dual-brain hardware device (STM32 + Qualcomm) that turns focus & posture into a live virtual pet

- Arduino firmware + Python daemon + claymorphic Streamlit dashboard over MessagePack RPC. 110-test suite.

Tech: Python, STM32, Qualcomm, MessagePack, Streamlit

Gutmagotchi — Stress-detection Wellness Device

Contactless stress detection on Arduino UNO Q with on-device streaming ML (River)

- 0-100 stress index → Tamagotchi mirrors your mood. Dual-board (UNO Q + Nano 33 BLE), Node/Phaser dashboard. Privacy-by-design.

Tech: Arduino, River ML, Node.js, Phaser, Python

2025

Fahmai — Enterprise Data Agent

Two-tier agent: deterministic SQL skill router → plan/execute/verify ReAct fallback

- RBAC + prompt-injection defense, SQLite/DuckDB backends, Qwen3.6-27B serving, SSE streaming, EN/TH docs.

Tech: Python, Qwen3.6-27B, SQLite, DuckDB, SSE

2026

SAIE 2026 Hackathon — Jetson Nano FPS/Watt Research

Benchmarked deep learning inference efficiency (frames per second per watt) on edge devices

- Researched and optimized model deployment on NVIDIA Jetson Nano for maximum throughput-per-watt.

Tech: NVIDIA Jetson Nano, Edge AI, Python

2026

OpenAI Hackathon 2026 — Legal + Mental Health AI

AI agent for mental health and legal document support for laid-off workers in Thailand

- Support system helping displaced workers navigate legal documents and access mental health resources.

Tech: TypeScript, LLM Agents, Next.js

2026

Education

B.Eng. Electrical & Computer Engineering

Thammasat University, Bangkok, Thailand

2012 – 2014

B.Eng. Computer Engineering

University of Nottingham, UK (Dual-degree programme)

2014 – 2016

Super AI Engineer SS06

Thailand’s Flagship AI Engineering Programme

May – June 2026

Technical Skills

- Languages:** Python, TypeScript, JavaScript, SQL, C/C++
- Web:** Next.js, React, Flask, FastAPI, Prisma, Supabase, Tailwind, Vite
- AI/ML:** pandas, scikit-learn, pythainlp, LLM Agents, Multi-agent Orchestration, Hermes Agent
- Tools:** Claude Code, Cursor, Antigravity CLI, Ollama, Vercel, Docker, Git, $\LaTeX$
- Edge/HW:** Arduino, STM32, Qualcomm, NVIDIA Jetson Nano
- Marketing:** Facebook Ads, Google Ads, SEO, AEO, Content Strategy