Yavin Songkham

AI & Full-Stack Developer · I build AI software real businesses run on

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> 📂 **Portfolio with a full case study for every project (screens, video, architecture): yavinsongkham.com**

SUMMARY

Computer Science (Digital Innovation) graduate who ships complete products: in my first role I built the software a three-branch dental clinic runs its customer side on — an AI that answers patients on LINE and Facebook, bookings, patient records, ads and a public website. I also built a private AI that runs on my own PC, a LINE store with no staff, and apps used in a classroom. Full-stack in JavaScript/React/Node and Python, with a focus on AI that is safe, accurate and actually used.

EXPERIENCE

AI & Web Developer FIRST ROLE — PSDC & Paragon Dental Clinics (บริษัท ฟันสวย จำกัด), Rangsit Oct 2026 – Present

- Sole designer and developer of the clinic group's software, from first idea to daily use by staff at **3 branches**.
- **LINE OA Studio** — staff app for every LINE + Messenger chat, bookings, patient records, LINE shop, member cards and Facebook ads (~27k lines, ~260 permission-checked actions). An AI answers patients first in Thai from the clinic's own knowledge, hands pain/price/booking questions to staff and learns from their replies every day.
- **psdcdental.com** — public site: 36 pre-rendered TH/EN pages, 3D treatment models, cost estimator, LINE booking; Lighthouse accessibility, SEO and best practices 100.
- **Data Vault** — encrypted, versioned copy of all clinic data; used it to restore the whole system after a database outage the same day.
- Ad tools that measure Facebook ads in patient chats, not clicks, with an AI guard that pauses ads that stop paying off.

LINE OA Studio	**psdcdental.com**	**Clinic Data Vault**
Staff dashboard + AI · case study & video ↗	psdcdental.com · case study ↗	Encrypted backup · case study ↗

SELECTED PROJECTS

Local AI *Private ChatGPT-style app running fully on my PC* — See how it works ↗

- Own engine on llama.cpp + diffusers (not a wrapper): 6 switchable open models (Qwen3, Gemma 4), photo understanding, voice input in ~0.5 s (Whisper on GPU), SDXL image generation, web search.
- Memory, a knowledge folder with retrieval (RAG), 👍/✏️ feedback that becomes lessons, and a terminal it can use only with my approval. The clinic app sends AI requests to it first through a secure bridge.

InvestMart *AI market-intelligence platform · Founder* — investmart.vercel.app · See how it works ↗

- US + Thai markets (S&P 500, NASDAQ 100, SET50) in one place: AI news impact ratings, daily infographics, heatmap, screeners, DCF and bull/base/bear scenarios, paper trading.
- "Martin", an AI analyst grounded in live prices; 4-provider AI fallback chain; rate limits, CSP and input validation.

เฮานึ่งตึงลำ AI Ordering *A food shop that sells entirely inside LINE · live*

github.com/thinandyavin-tech/line-shop-bot · See how it works ↗

- Customers order in plain Thai, get an exact-total PromptPay QR and send the slip in chat; the owner just cooks. Prices live in code, never in the AI. 33 tests with CI.

Khanomjeeb POS & Shop AI *Running our family food business* — See how it works ↗

- Offline-first POS PWA used daily: sales, bundles, PromptPay, expenses, stock and profit, synced across phones.
- Shop AI collects every Facebook post, chat and ad result each morning, scores ad audiences and drafts replies with RAG (case study ↗).

Catch the Word *Webcam hand-tracking game · used in a grade-1 class* — catch-the-word.vercel.app · See how it works ↗

- Two students point and pinch to catch the right English or maths answer; MediaPipe + WebAssembly in the browser, fully offline.

Meeting Summary Bot *LINE group bot* See how it works ↗

- Turns meeting notes into a card (topics, who does what by when) plus a mind-map image; shows Google Drive links as file cards.

AI Video Studio — Mr Din *60+ Thai explainer videos made with code* See how it works ↗

- Remotion templates for news, history, 3D satellite war maps and ghost stories; narration in my own cloned voice; scheduled to Facebook, TikTok and YouTube.

MORE PROJECTS

- **Scan Tutor** — photo of English homework → every answer explained in Thai. ↗
- **Thai Checkers AI** — engine with trained evaluation (+340 Elo). ↗
- **JobHub** — searches 5 Thai job boards at once. ↗
- **ChessNext** — Stockfish 17 in the browser with Elo control.
- **PONG Cookies** — founder; 3D cookie designer shop, orders into LINE.
- **Martin Stocks** — Discord AI stock-analysis bot (open source).
- **SplitBill** — FastAPI + Next.js + Postgres, 44 tests.
- **Hookledger · Thai Payment Toolkit** — open-source dev tools.

All of these, with screenshots and links: yavinsongkham.com/#projects

SKILLS

AI	LLM apps & agents, RAG / embeddings, prompt & system design, local LLMs (llama.cpp), vision, speech, image generation · Claude, Gemini, Groq
Code	JavaScript / TypeScript, Python, React, Next.js, Node.js, FastAPI, Flask, SQL (Postgres, SQLite)
Platforms	LINE Messaging API / LIFF, Facebook Graph & Marketing API, Vercel, Neon, PromptPay, Google APIs
Craft	Security (2-step login, encryption, roles, audit logs), SEO & accessibility, automated testing, three.js, Remotion
Languages	Thai (native) · English (C1 Advanced, EF SET)

EDUCATION

Chiang Mai University — International College of Digital Innovation · B.Sc. Digital Innovation (Computer Science) 2023 – 2026