

Leonard Chow Yi Ding

Full-stack & AI Engineer

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Digital-marketing grad turned full-stack & AI engineer. I take vertical-SaaS products from blank repo to live production on Cloudflare's edge, and build LLM agent systems that are tool-grounded, cost-aware, and safe. **Three SaaS run in Singapore today — most shipped solo, increasingly with orchestrated AI coding agents.**

SELECTED PROJECTS

Salon OS edge ERP/POS

salonosg.com

Edge-native multi-store ERP/POS for a 17-store Singapore salon group, replacing a legacy China SaaS — built as Strategy Director, now productized as a SaaS.

TypeScript · Hono · Next.js 15 · Cloudflare D1/KV/R2/Queues — migrated **537K** orders (0 FK violations) · **7-role** RBAC · CPF/SDL/GST payroll

Maple Admissions CRM edtech

app.maplesgedu.com

Study-abroad sales-to-finance CRM behind my own company, Maple Education — RBAC, finance/payroll, OCR, audit.

TypeScript · Hono · Vue 3 · D1/R2/KV/Pages — **318** commits · **5** product phases · live in production

RoomForge 3D · LLM

roomforge.leonardchow.work

Browser tool turning a floorplan image into an editable 3D room, with real-time human + LLM co-editing of the scene over MCP and Stripe billing.

React 19 · three.js/R3F · Anthropic API · Stripe · Capacitor — **16** MCP tools · **519** models · **67** tests

Codex Orchestrator agent infra

github.com/shuaige121

Contract-driven multi-agent system pairing Claude Code as coordinator/QA with sandboxed Codex CLI workers — how I ship at solo-unusual scale.

Python · JSON Schema · Linux Landlock LSM — **15** language stack profiles · anti-injection hardening

MRRJ → Edge Migration solutions

mrrj.leonardchow.work

Reverse-engineered an undocumented vendor ERP API and lifted a salon chain onto self-hosted Cloudflare infra — idempotent, retry-safe, PII-hashed.

Workers + Queues + D1/KV/R2 — **558K** orders backfilled · **192** jobs/day fan-out · SHA-256 NRIC

Also

Maple Sales Agent (11-provider LLM, citation anti-hallucination) · PolyVoice (OpenAI-compatible zh-en TTS/STT) · SG Shop Radar (30+ source gov-tender radar) · Melody-Arrangement (LLM + music-theory, ★3) · 50+ more on GitHub

EXPERIENCE

Strategy Director · New Gen Group

Jan 2025 – present

Designed and built Salon OS, an edge-native multi-store ERP/POS for the group's 17-store chain; productizing it as a SaaS for the wider salon industry.

Founder & Director · Maple Education Pte. Ltd.

Dec 2023 – present

Founded a Singapore study-abroad agency and built its admissions CRM end-to-end on Cloudflare (sales → finance pipeline).

Sales & Marketing Manager · UFriend Media

May 2019 – present

Ran marketing; built the company's multilingual website and a hub of 24 internal tools — where self-taught coding became shipping software.

Marketing Specialist · Haohaoguo Realty & Dada Consultants

2023 – 2024

Marketing across property and consulting — campaigns, content, and the growth instincts that still shape how I build product.

SKILLS

Languages

TypeScript, Python, Swift/SwiftUI, SQL, JavaScript, Rust

Frontend

Next.js 15, React 19, Vue 3, three.js/R3F, Tailwind

Backend & Edge

Hono, FastAPI, Cloudflare Workers/D1/KV/R2/Queues, schema design, ETL/migration, RBAC, Stripe, WebAuthn

AI / Agents

Multi-agent orchestration, MCP servers, anti-hallucination grounding, multi-provider LLM/BYOK, local TTS/STT/vision (GPU)

Practice

pnpm/Turborepo monorepos, Vitest/Playwright, contract-driven dev, security audits, i18n at scale, CI/CD

HIGHLIGHTS

- Shipped **3 production vertical-SaaS** and **15+ live Cloudflare edge apps**.
- Ran a **dual-engine (Claude + Codex) pre-launch security audit** — documented NO-GO with 60+ verified findings, incl. real GST/CPF compliance defects.
- Built **i18n at scale** — a 4-language app at ~1,368 strings/locale and a 9-language site with full hreflang/SEO.

EDUCATION

University College Dublin

BA (Hons), Digital Marketing · 2023

LANGUAGES

English (professional) · 中文 (native)