Howie Wang

AI-Native Solutions Engineer — one person and AI agents, from first conversation to live product.

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PROFILE

Final-semester Master of IT student at UNSW (graduating December 2026). Over the past year I built, launched and now run a biotech company's entire commerce platform single-handedly — every screen, integration, server, filing and staff manual — using AI throughout, with Cursor and then Claude Code writing the code and documents under my direction. I scope the need with the owner, turn it into specs the agents build against, test what they produce, and own go-live, training and support. Looking for a junior role where AI is how the work gets done: AI solutions engineer, AI implementation consultant or forward deployed engineer.

HOW I DELIVER WITH AI

- **One person, AI agents as the build team.** Cursor first, Claude Code since October 2026 — often several agent sessions at once (a server upgrade, a credential rotation and a media migration in the same week).
- **I own the what and the why.** Goals become written specs and acceptance checks, and a prompt template, Cursor rules, an AGENTS.md and persistent agent memory give every session the same context; the agents write the code, tests, migrations and deploy tooling.
- **Verify, don't trust.** 760+ automated tests on every change; scripted audits of every console screen, Mini Program page, API endpoint and media file; my own test on a real phone before each WeChat review.
- **Guardrails before speed.** Hash-verified deploys that refuse stale code and roll back on their own; production, payment and credential changes wait for my approval.

WHAT I BRING

Integration & implementation	Integrated 11 partner systems — WeChat Pay v3 (JSAPI / H5), Alipay (PC / JSAPI), AdaPay, WeChat Login & Order Centre, WeCom SSO, Aliyun SMS / OSS / MTS, Hupun ERP and a store platform; configured environments, domains, HTTPS and CDN; implemented request signing (HMAC-SHA1 / SHA-256, MD5) where no SDK existed
Discovery & requirements	Translated an owner's goals into 17 scoped product areas — storefront, loyalty programme, dealer network, commission scheme, anti-counterfeit verification, content distribution, finance reporting — with a phased plan
Go-live & support	Ran the production launch against a readiness checklist; planned a zero-downtime data migration around dealers' business hours; health checks, runbooks and audit logs; first line of support for the client's staff through 67 releases
Enablement & training	Wrote an illustrated operations guide that maps every Mini Program screen to where staff change it, four role-based staff manuals, plus 17 operational documents; ran structured feedback rounds and turned them into prioritised releases
Data & reporting	Finance reconciliation and downloadable reports for the accountant; member and customer exports; a map dashboard with country → province → city → district drill-down
Compliance & platform administration	WeChat platform requirements (real-name verification, phone-login compliance), Mini Program entity-change filing, pre-packaged food seller registration paperwork
Communication	Bilingual English / Mandarin; worked remotely from Australia with a China-based owner, staff, accountant and vendors' engineers — each got the document they needed

EXPERIENCE

YuanQiPai (元气湃) — Sole builder, with AI agents: discovery to go-live and support

Oct 2025 – Present · Contract | Biotech company selling health products to dealers and consumers on WeChat

- **The problem.** The business ran on disconnected tools: no single view of members, dealers, orders or commissions, and every marketing change needed outside help.

- **What I built, alone.** One platform, four products — a WeChat Mini Program storefront (60 screens), a staff console (45 pages, 100+ screens, four staff roles with two-person approval for money), the API behind them and a stand-alone customer registration tool — covering membership, coupons, points, dealer ordering and inventory, commissions, anti-counterfeit checks, marketing assets, training, complaints and finance reporting.
- **Integration.** Connected 11 partner systems for payments, sign-in, ERP fulfilment, cloud media and notifications; handled the hard parts — callbacks that arrive late, retries, idempotency, refunds — so the business never sees them.
- **Go-live.** WeChat compliance and filings, domain and HTTPS, a launch checklist, a zero-downtime data migration.
- **Enablement & support.** Wrote the operations guide and four role-based staff manuals, ran structured feedback rounds with the client and shipped fixes across 67 releases; on call when something broke.
- **Running it.** After launch: an end-of-life platform upgrade with ~30 seconds of downtime, daily tested backups, a security review with credential rotation, and video moved off the app server.
- **Decisions that mattered.** A drag-and-drop page builder so marketing never waits for a developer · commission rules as console settings, not code · automated refunds for late payments instead of manual reconciliation.
- **Outcome.** Live since 10 October 2026 with 900+ members (1,400+ users) and 900+ customer registrations; the client's staff make day-to-day changes themselves.

Customer Registration System — Sole builder, with AI agents

May – Jul 2026 · Contract | Stand-alone tool replacing paper customer forms for offline sales across 20 countries

- Replaced paper forms with a mobile form staff hand to a customer — country-aware fields, a 3,423-district address picker, ID photo capture and a feedback survey — and gave the owner a live map dashboard with drill-down, filters and CSV export.
- Integrated it with the main platform through a signed webhook with retry, matching customers on ID document then phone so no record is duplicated; deployed independently on Alibaba Cloud with HTTPS.

SELECTED INTEGRATIONS

PARTNER	FOR THE BUSINESS	NOTABLE
WeChat Pay v3 · Alipay · AdaPay	Consumer and dealer payments; refunds through the original channel	One payment abstraction across three providers; payments arriving after a cancellation are refunded automatically; public-key verification of WeChat Pay notifications
WeChat Login · Order Centre	One-tap sign-in with phone number; orders visible in WeChat's native "My Orders"	Detects new vs. existing customers and merges accounts
Hupun ERP · store platform	Paid orders pushed to ERP and store systems for fulfilment	MD5 / HMAC-SHA256 signing implemented without an SDK; retryable outbound queue so a partner outage never blocks a sale
Alibaba Cloud SMS · OSS · MTS	Notifications, media storage with direct upload, video transcoding	HMAC-SHA1 signing without the vendor SDK; resumable, accelerated uploads (~21× faster from overseas); videos on a custom domain

TECHNICAL FOUNDATION

AI: Claude Code (agentic coding, parallel sessions) · Cursor · spec-driven prompting · reviewing and testing AI output · approval gates for production work

Stack: Node.js 22 · Express · PostgreSQL 18 · SQLite · REST APIs · OAuth · Webhooks · WeChat Mini Program · HTML / CSS / JavaScript · Alibaba Cloud (ECS, OSS, SMS, MTS) · Docker · Nginx · DNS / TLS · GitHub Actions · Jest

EDUCATION

Master of Information Technology — University of New South Wales (UNSW Sydney) · graduating December 2026

Referees available on request.