

EVAN YAP ZHI KAI

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)



SUTD engineering and entrepreneurship student who ships production AI agents; seeking AI and software internships.

EDUCATION

Singapore University of Technology and Design

BEng (Engineering Systems and Design), MSc Technology Entrepreneurship

Singapore

Expected May 2030

- **Coursework:** Algorithms & Object-Oriented Programming, Machine Learning, Data Modelling & Visualisation
- **1 of the 6 recipients** of the SUTD Technology Entrepreneurship Programme Scholarship

EXPERIENCE

Univers Pte Ltd

Aug 2026 – Present

Intern – AI Business Consultant (Aviation, Transportation, Logistics – GTM)

- Built and deployed an AI Decarbonisation & Audit Agent (Next.js, Vercel AI SDK, Groq) that automates ESG disclosure ingestion and client claim verification, saving ~3 hours of research per facility audit.
- Built and calibrated an HVAC energy-consumption regression model to validate client energy assumptions, with estimates within 2–3 percentage points of observed consumption ranges.
- Analysed operational workflows and industry benchmarks to prioritise AI and energy-management use cases by impact, telemetry availability, feasibility and implementation effort.
- Advised the Senior Director, Global Lead and senior client stakeholders, turning technical analysis into business cases, solution requirements and implementation roadmaps.

EvanYapFitness

Sept 2024 – Jan 2026

Founder

- Built an online coaching business to 30 paying clients and \$4k monthly revenue; grew the audience to 2.2k followers and 10k average views per post by testing content and messaging against analytics.
- Built a Google Form and Excel intake pipeline and an AI-assisted (Perplexity) workflow that drafts training and meal templates for manual refinement, cutting programming time per client by 50%.

PROJECTS

EGO Telegram Personal Assistant | Next.js, TypeScript, Vercel AI SDK, Claude API, GCP Pub/Sub

Aug – Oct 2026

- Built an orchestrator agent that chains finance, workout, calendar, to-do, email-draft and bill-splitting tools from one typed message, photo caption or voice note, reaching 97% routing accuracy (34/35) on a live eval set.
- Automated expense capture from Apple Pay (iOS Shortcuts), DBS/PayLah!, Grab and e-commerce receipts via Gmail Pub/Sub push, cutting sync time by ~75% with parallel parsing.
- Evolved intent routing into tool-calling sub-agents (Vercel AI SDK) with 17 tools that search, edit, delete and undo Google Sheets records from plain-language requests like “change that to \$15”.
- Built a Claude model router (Haiku → Sonnet → Opus failover, Perplexity Sonar search with circuit breaker), a voice-note and receipt pipeline, and security hardening (prompt-injection guardrails, PII redaction, AES-256-GCM).

Systematic Trading System | Python, pandas, SQLite, Webull API

Sep 2026 – Present

- Built a ~6,500-line Python system that placed real orders on Webull SG: strategies only propose, and deterministic code sizes and risk-checks every order (2% daily-loss stop, 5% drawdown breaker, kill switch); 191 CI tests.
- Ran 4 walk-forward studies (deflated Sharpe, trial counting); none found an edge. A Claude agent missed its pre-set bar against the momentum rule (Sharpe 1.39 vs 1.36, win rate 43.9% vs 47.4%), so I removed it.

Univers Website Revamp Challenge (Top 5 of 100 Entries) | JavaScript, Three.js, CSS3, Vercel

Sept 2026

- Designed a 9-page, 7-language EnOSTM site redesign and pitched it live to the CEO and senior executives.
- Built framework-free, with a custom i18n engine, a WebGL (Three.js) particle mesh, an executive ROI calculator, an edge-to-cloud simulator and a serverless demo-booking API.

Project V-Bây (2nd Place, Vietnam Grand Challenge Hackathon) | Strategy & Market Research Lead

May 2026

- Led market research and strategy for an AI telecom honeypot platform against voice phishing, sizing Vietnam at \$350M TAM and \$7.5M SOM by 2027 with a B2G/B2B go-to-market roadmap.
- Built a 3-year financial model (break-even in 24–36 months); pitched to 4 investors, 1 expressed strong interest.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C++, C, SQL, HTML/CSS

Frameworks & Tools: Next.js, React, Node.js, Vercel AI SDK, OAuth 2.0, Telegram Bot API, Vercel, Google Cloud APIs

AI & Data: LLM agents, prompt engineering, Claude API, Perplexity Sonar, Groq, regression modelling, Excel

ADDITIONAL

Leadership & Awards: Floorball Captain; House Exco (Events, Hostel Works); Best Storytelling nominee (Dragon Tiles)

Interests: Competitive fitness & powerlifting (HYROX athlete), guitar, coffee, volunteering with church worship ministry.