

Ong Cheng Yang

Senior full-stack engineer, backend-focused · Team lead

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Summary

Engineer with six years of shipping production software, most of it on the backend: Node.js services, REST and GraphQL APIs, event-driven workflows on queues and webhooks, PostgreSQL and AWS. Team lead at Giv AI Labs, and founder of TechDevX, where I built an OpenID Connect identity provider and a multi-tenant CRM with a WhatsApp AI agent.

Skills

Backend	Node.js, TypeScript, Express, Fastify, Hono, REST, GraphQL, .NET Core
Event-driven	Redis + BullMQ job queues, webhooks (Stripe, WhatsApp Cloud API), AWS Lambda, scheduled workers
Data	PostgreSQL, Prisma, multi-tenant data scoping, Redis
Cloud & DevOps	AWS (ECS, Lambda, Cognito, EC2, S3, RDS, CloudFront, CloudWatch), Docker, GitHub Actions CI/CD
Auth & security	OpenID Connect, OAuth (Google, GitHub, Apple), PKCE, JWT/JWKS, audit logging
Frontend & mobile	React, Next.js, React Native, Redux Toolkit, Angular
AI	Claude and OpenAI APIs, structured outputs, AI agents with guardrails

Experience

Team Lead, Giv AI Labs Sdn Bhd Aug 2025 – Present

- Lead the engineering team building Mantiq Launch, an AI platform whose 21 tools take founders from an idea to a launched business, and AI tools for teachers.
- Built AI employees: agents scoped to each organisation that work from its synced data and keep responses within the brand and setup it has configured.
- Built Brand Studio and Market Research with the team as the inputs the marketing campaign, the product’s end result, is generated from.
- Build product features and the backend services behind them in Next.js, TypeScript and Node.js.
- Migrated authentication to AWS Cognito and moved services onto AWS ECS.
- Run planning and code review, and work with the business on what to build next.

Founder, TechDevX 2024 – Present

- LeadFlow (own product): multi-tenant CRM. Fastify API and Next.js apps on PostgreSQL, with every query scoped to its business; Redis/BullMQ workers for background jobs; WhatsApp Cloud API webhooks turn messages into leads.
- Built LeadFlow’s WhatsApp AI agent (Claude, OpenAI switchable): replies follow business playbooks, within a daily cost cap, and any reply that fails validation is dropped instead of sent.
- TechDevX Identity: OpenID Connect provider (authorization code + PKCE, RS256 tokens, JWKS) on Hono, Better Auth and PostgreSQL, serving multiple organisations; Stripe plans become token entitlements and signed webhooks to client apps.
- Security and quality: append-only audit log, rate limiting, hardened read-only containers, secret scanning; about 400 automated tests including Playwright end-to-end OIDC flows.
- Client work: an agent commission and settlement portal for 300+ agents that cut reconciliation time by 85% (Next.js, PostgreSQL, Stripe); a headless marketing site with lead routing that grew inbound leads 3.2x.

- Freelance Full-stack Developer, Arkmind** Oct 2024 – Jul 2025
- Full-stack development on Arkmind’s web systems, across front end and Node.js services.
- Senior Full-stack Developer, Vitalz Sdn Bhd** Jan 2024 – Oct 2024
- Built the Signsbeat web and mobile apps from scratch, an AI wellness companion released on the App Store.
 - Connected wearable devices over Bluetooth and synced their readings into a longevity index and recovery trends.
 - Shipped the AI health assistant and lifestyle insights on top of the synced data.
- Node.js Developer, CelcomDigi Berhad** Jan 2022 – Dec 2023
- Debugged and fixed production issues in backend services.
 - Introduced AWS Lambda to the backend.
 - Built reusable components and improved the user experience of internal products.
- Software Engineer, Syntrino Solutions** May 2021 – Dec 2021
- Worked on PeopleX, an HR platform for leave, claims, payslips and attendance: built its virtual business card, the Thrive web app redesign and new system email templates (React, Next.js, .NET Core).
- Software Engineer, IFCA Sdn Bhd** Sep 2020 – May 2021
- Built features for HotelX, a cloud hotel management system used by 1,000+ properties, in React, TypeScript, Node.js and GraphQL.
 - Integrated Revenue Monster payments, WhatsApp and Telegram messaging, and NodeMailer email.

Selected freelance projects

- Loan application system, Arkmind** 2022 – 2023
- Built and maintained the system a finance company uses to take in and process loan applications (React, Redux Toolkit, Node.js, Express, Prisma).
- Cashier admin system, FirebiredIt** 2022 – 2023
- Built a new cashier and back-office admin system from the ground up (React, Redux Toolkit, Node.js, Express, Prisma).

Education

- Higher Diploma in Financial Technology**, Letterkenny Institute of Technology, Ireland 2019
- BA (Hons) Business Management, Enterprise Development Award**, Letterkenny Institute of Technology, Ireland 2018
- European Business and Economics Programme**, Berlin School of Economics and Law, Germany 2017
- Diploma in Business Management**, University of Malaya, Malaysia 2016