



KA VATANA

Founder, CHNAI LAB

Product and Full-stack Engineer

Founder of CHNAI LAB, a Cambodia-first student product studio in Phnom Penh, and a Year 1 Software Engineering student. I own the studio and build most of what comes out of it — seven public product tracks across point of sale, agricultural market access, student opportunities, medical exam practice, community moderation, trader tooling and learning management, plus client builds. I label every piece of work by what it can prove today rather than by what it hopes to be.

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Technical Skills

- **Frontend**
 - TypeScript - JavaScript
 - Vue - Nuxt - React - Next.js
 - Tailwind - Vite
- **Backend and data**
 - Node.js - NestJS - Prisma
 - PostgreSQL - Python
- **Cloud and delivery**
 - Vercel - Cloudflare - Docker
 - GitHub Actions - Git
- **Practice**
 - Product framing - user-flow design
 - AI-native engineering workflows
 - Evidence-led public claims
- **Languages**
 - Khmer - Native
 - English - Professional working

Work Experiences

June 2026

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Present

Founder · Product and Full-stack Engineer

CHNAI LAB, Phnom Penh

- Founded the studio and own what is built under it.
- Run seven public product tracks and lead product and engineering across them.
- Built Vantrex and LMS for Education with Hongleng under the studio.
- Deliver client builds through the studio, including the LEAP Everlasting Blooms storefront.

2026

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Present

Co-founder · Product Builder · Full-stack Engineer

Chomkar.com

- Top 2 at Turing Hackathon Cycle 10, theme Market Access for Farmers.
- Co-founded the product and shaped its direction, from KasekorX to Chomkar.com.
- Built and improved the product as a full-stack engineer; defined buyer and farmer flows.
- Prepared the pitch, demo flow and business-model explanation.

2026

Full-stack Build (CHNAI LAB client project)

LEAP Everlasting Blooms

- Moved a handmade-gift shop off chat-only selling onto a storefront it owns.
- Built a catalogue of 24 designs across five product lines, browsable by line, occasion and colour.
- Built accounts with Google and one-time-code sign-in, cart, checkout with KHQR payment, and order tracking.
- The brand, product line and photography belong to the client.

Current

Web System / Digital Project Support

Angkor Byte

- Website design, development, testing, bug fixing and implementation support.
- Digital marketing, content, operations and localisation when needed.
- Learning company workflow, task reporting and Cambodia–Japan technology collaboration.

Selected Work

Chomkar

- Khmer-first market access for Cambodian smallholder farmers
- Co-founder, product builder, full-stack engineer
- Live pre-pilot; no real order or validated demand claimed
- chomkar.com

PHSAROS

- Point-of-sale, inventory, customers and expenses for small retailers
- Full-stack implementation contributor
- Live core; operator validation owed
- phsaros.vercel.app

LEAP Everlasting Blooms

- Storefront for a Phnom Penh handmade-gift maker who sold only through chat
- CHNAI LAB client project, full-stack build
- Live and handed over
- leaplb.store

LMS for Education

- Canvas-inspired learning management: enrol, assign, submit, grade
- Co-founder, full-stack and product engineer, built with Hongleng
- Public demo on synthetic data; no institution runs on it
- lms-for-education-six.vercel.app

Vantrex

- Bilingual trading-signal portal and engine
- Co-founder, full-stack and product engineer, built with Hongleng
- Pre-launch; no customers, payments in test mode
- vantrex-ten.vercel.app

Sat Digital

- Rules-first moderation guard for Telegram groups
- Product builder and backend engineer
- Guard deployed; no pilot or users
- t.me/sat_digitalbot

Work Experiences (continued)

Aug 2023

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Oct 2025

Digital Marketing Intern

F2S The Studies Community

- Supported content, page activity and audience communication for an education platform.
- Built early experience in digital media and content strategy.

Feb 2024

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Feb 2025

Marketing Advertiser & Social Media Manager (freelance)

Bajaj RE

- Managed social media marketing, advertising, digital content and page activity.

Aug 2023

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Oct 2024

English Teaching / Community Volunteer

Advanced Centre for Empowerment (ACE NGO)

- Taught English and joined community teaching, leadership and entrepreneurship workshops.

Education

Feb 2026 – Present

BELTEI International University

Year 1, Software Engineering

Software engineering fundamentals; full-stack development, databases, web systems, AI-assisted workflows.

Jan 2026 – Present

Institute of Foreign Languages (IFL)

Year 1 English

Academic, technical and professional communication.

Graduate

BELTEI International School

High school

Mathematics, STEM, public speaking and competitions.

Awards

2026

Top 2, Turing Hackathon Cycle 10 — Market Access for Farmers, with Chomkar.com

Nov 2023

Bronze Medal, Southeast Asian Mathematical Olympiad

Aug 2023

Bronze Medal, Thailand International Mathematical Olympiad

Jun 2023

Bronze Medal, Singapore & Asian Schools Math Olympiad

Apr 2023

Bronze Medal, Kangaroo Mathematics

Nov 2022

Silver Medal, American Mathematics Olympiad

May 2022

Bronze Medal, Asia International Mathematical Olympiad, trial round

Apr 2022

2nd place, Outstanding Mathematics Student Competition, Phnom Penh