CURRICULUM VITAE

Thanousin Phouvongkhamchan

Senior Full-Stack Developer · Web · Mobile · DevOps · IoT

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PROFILE

I'm Sin, a full-stack developer from Vientiane. Since 2020 I've designed, shipped and operated payroll and KPI platforms, POS and booking systems, mobile apps and the servers behind them, for companies in Laos and Thailand.

EXPERIENCE

Remote Full-Stack & DevOps Engineer 2025 – Present
Thailand-based company (under NDA) · Remote

- Built and run a KPI, HR and payroll suite (Go, React, Flutter) used across the organisation.
- Rebuilt a live-streaming agency platform: back office, member portal, mobile and desktop apps.
- Moved internal tools from spreadsheets to proper APIs and databases; set up monitoring and alerting for all servers.

Senior Full-Stack Developer 2025 – 2026
AIDC · Vientiane

- Full-stack delivery across web (React, Next.js, Vue/Nuxt) and mobile (React Native, Flutter).
- Backend services in Node.js (Express, NestJS) and Go (Fiber) with Redis caching.
- CI/CD with Docker, Nginx, GitHub Actions and PM2; monitoring with Prometheus and Grafana.

Senior Full-Stack Developer 2022 – 2025
Archineer Technology · Vientiane

- Led projects from database design to deployment: e-commerce, booking, LMS, HR and POS systems.
- Built IoT dashboards on web and mobile with MQTT, Node-RED and InfluxDB.
- Integrated AI features: licence-plate detection, face scan and a RAG chatbot.

Intermediate Web Developer 2021 – 2022
Retech Sole Co., Ltd · Vientiane

- Web apps in React and Nuxt.js; company websites in WordPress.
- APIs with Node.js, Express and Redis on MySQL, PostgreSQL and MongoDB.

Junior Web Developer 2020 – 2021
CodeCamp Lao · Vientiane

- Front end in Blazor and Bootstrap, back end in .NET 5 with CouchDB.

SKILLS

FRONTEND
React, Next.js, Vue, Nuxt, TypeScript, MUI, Ant Design, Tailwind, WordPress

MOBILE & DESKTOP
Flutter, React Native, Kotlin / Compose, Swift, Electron

BACKEND
Node.js (Express, NestJS), Go (Fiber), .NET, Prisma, Socket.IO, BullMQ

DATA
PostgreSQL, MySQL, SQL Server, MongoDB, CouchDB, Redis, SQLite, InfluxDB

DEVOPS
Docker, Nginx, Caddy, PM2, GitHub Actions, DigitalOcean, Cloudflare, Vercel, Netlify

MONITORING & QA
Prometheus, Grafana, custom Go agents, Playwright, Vitest, Jest

IOT & AI
MQTT, HiveMQ, Node-RED, InfluxDB, OpenAI, Claude, Gemini, RAG

LANGUAGES

Lao	Native
Thai	Fluent
English	Reading, writing & communication

EDUCATION

Bachelor of Computer Engineering
Faculty of Engineering, National University of Laos
2018 – 2022 · GPA 3.49

SELECTED PROJECTS

KPI, HR & Payroll Suite · 2026
One platform for goals, daily work plans, payroll and rewards — on web and mobile.
`Go · Fiber · SQL Server · Redis · React 19 · MUI`

Server & Uptime Monitoring · 2026
A lightweight, self-hosted alternative to Grafana + UptimeRobot.
`Go · Fiber · SQLite · gopsutil · React 19 · Tailwind`

Restaurant POS, Kitchen Display & QR Ordering · 2026
Tables, POS, kitchen screens and guest ordering, kept in sync in real time.
`Next.js 16 · MUI · next-intl · Socket.IO · Express 5 · Prisma 7`

Credit-Union Regulatory Reporting · 2026
Monthly financial reporting, review and early warning for a national association.
`Next.js 16 · MUI · Chart.js · Express 5 · Prisma · PostgreSQL`

Parking Ticketing on Handheld POS · 2026
Offline-first QR tickets and receipts on Android handhelds, with a cloud back office.
`Flutter · sqflite · Sunmi printer SDK · QR · Express · Prisma`

Live-Streaming Agency Platform · 2025 – 2026
Back office, member portal, mobile and desktop apps for a creator agency.
`Next.js · Express 5 · Prisma · PostgreSQL · Redis · Socket.IO`

Hotel Management & Booking · 2026
Front desk, housekeeping, POS and an online booking site for hotels.
`Next.js · Ant Design · React Query · Zustand · Express · Prisma`

Women's Clinic Management · 2024 – 2026
Appointments, gynecology and antenatal records, billing and a doctor app.
`Next.js · Ant Design · NestJS · Prisma · PostgreSQL · Flutter`

Accessible Ride-Hailing Platform · 2026
Rides for people with disabilities: passenger app, driver app and dispatch console.
`Flutter · Riverpod · NestJS · Prisma 7 · PostgreSQL · Socket.IO`

MORE PROJECTS

Land Subdivision Sales & Instalments · Market & Stall Rental Management · Company Asset Management · HR Platform with AI Assistant · Retail POS & Online Store · Legacy POS Modernisation · Wholesale Distribution ERP · Event Ticketing & Gate Scanning · Café POS with Recipe Costing · Private School Administration · Pharmacy POS & Stock · GPS Time Attendance · Customer Loyalty Back Office · Field Crew HR & Attendance · 3D Tailoring Trainer

EARLIER HIGHLIGHTS (2020 – 2024)

IoT dashboards on web and mobile (MQTT, Node-RED, InfluxDB) · AI: licence-plate detection, face-scan check-in, RAG chatbot · Signage management with BCEL One payment · LMS and video streaming · Hotel, clinic, boat-ticket and real-estate booking · E-commerce stores and company websites

HOW I WORK

Scope in writing, then build exactly that
Before coding I restate the requirement, list the screens and agree what 'done' means. Fewer surprises, fewer rewrites.

Production-grade by default
Builds are made locally and uploaded with a rollback copy. Servers are monitored, backups are encrypted and tested.

Ship small, ship often
Working increments every few days on a UAT environment, so feedback arrives while changes are still cheap.

I own it after launch
Handover manuals in Lao and English, training videos, and I stay reachable when something needs fixing.