

Mai Hoang Linh

Full-Stack Software Engineer | Go, TypeScript, React, PostgreSQL

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SUMMARY

Full-stack software engineer with 5+ years of experience across web, mobile and backend, the last two in healthcare: clinic management and CRM software for dental and skin clinics. Started in frontend (React, Vue, Next.js) and now work mostly in Go and PostgreSQL: REST APIs, background workers, and the migration of a production NestJS backend to Go. Have taken a product from database schema to deployed interface, including its CI/CD and server setup.

SKILLS

- **Languages:** Go (Golang), TypeScript, JavaScript, SQL
- **Backend:** Go (Chi, go-zero, gRPC), Node.js (NestJS, Express), REST APIs, OpenAPI, PostgreSQL, Redis, MongoDB, NATS JetStream, WebSocket, Prisma, sqlc
- **Frontend:** React, Next.js, Vue 3, Nuxt, Vite, Tailwind CSS, React Query, Redux, Pinia, MUI, PrimeVue, Ant Design, Astro
- **Mobile:** React Native, Expo (Expo Router, EAS), Zalo Mini App
- **Infrastructure:** Docker, Docker Compose, Linux, Ansible, Caddy, CI/CD with GitHub Actions, AWS S3, Git
- **Testing and tooling:** Jest, Go testing, AI-assisted development with coding agents (Claude Code, Codex)

EXPERIENCE

Software Engineer | Up Care Group (UpDental, DrCare, O2 Skin)

Sep 2024 - Present

Clinic management and healthcare CRM software for the group's clinic brands UpDental, DrCare and O2 Skin, including BCare, its dental clinic management product: booking, front desk, patient records, treatment, billing, customer support and patient-facing apps.

Backend (Go, NestJS)

- Co-developed the Go backend (Chi, OpenAPI, PostgreSQL) that replaces O2 Skin's legacy NestJS service one area at a time: booking, queue, clinic operations and mobile account APIs, with compatibility adapters so the legacy system kept running during the move.
- Developed Go services for the same migration: a gRPC server and NATS JetStream workers.
- Contributed to the legacy NestJS and Prisma backend during the transition (2026), and to the Go (go-zero) backend of BCare (since 2025).

Web frontend (Vue 3, React)

- Main contributor to the BCare frontend since September 2024 (Vue 3, TypeScript, Pinia, PrimeVue, Tailwind CSS, WebSocket): a dental clinic management application covering scheduling and doctor calendars, patient records, treatments, contracts and payments.
- Contributed features to the O2 Skin clinic management web app in 2026 (React 18, TypeScript, MUI, React Query).

Mobile and patient-facing apps (React Native, Zalo Mini App)

- Built mobile and web flows for check-in, QR/barcode and appointments with Expo, React Native, Expo Router and React Query. Moved check-in to self-service instead of one-to-one staff assistance.
- Built most of the O2 Skin Zalo Mini App (React 18, TypeScript, ZaUI) in 2026.
- Added in-app mobile surveys that collect customer feedback directly.

Customer support CRM

- Built internal CRM workflows for mailbox, call center and agent-assist operations (React, Vue 3, NestJS, Go, PostgreSQL, Redis), which reduced context switching for support staff.
- Implemented Gmail integration with thread-aware replies, in-app real-time calling with call logging (JsSIP, WebSocket), and knowledge-based answer suggestions.

Software Engineer | Robust Tech House

Oct 2021 - Sep 2024

- Built an Express (Node.js) microservice for image processing and PDF export for FacilityBot, a CMMS product, with Sharp, pdfmake, MongoDB, AWS S3 and Docker: resizing, timestamping, and EXIF and geolocation data.
- Built responsive workflows for the FacilityBot CMMS portal with Vue, Nuxt, Ant Design and Vuex: real-time tracking, room and desk booking, payment and dashboards.
- Built booking and CRM interfaces for Okkami and Augment+ with React, Next.js, Redux and Tailwind CSS, working with teams in Thailand and Singapore.

Frontend Developer | Mona Media

Jan 2021 - Oct 2021

- Built reusable components and admin tools for an LMS (Mona eLMS Core) with Next.js, React, Redux and Ant Design.
- Built hospital management workflows (Mr.App HMS) with React, Redux, Next.js and PrimeReact: data tables, filters, forms and validation.

PROJECTS

Class management system | Go, PostgreSQL, Next.js, React, Docker, Ansible

2026

- Volunteer project. Designed and built, almost entirely alone, a class management system for one organisation: users and staff, academic structure, students, enrolment and classwork.
- Backend: a single Go binary on PostgreSQL with a generated OpenAPI contract, a permission check at the start of every service method and an audit record for every write.
- Frontend: Next.js 16 (App Router), React 19 and TypeScript.
- Deployment: a VPS provisioned with Ansible, running Docker behind a Caddy reverse proxy. GitHub Actions builds an immutable image and deploys on merge to main; the database is dumped before each backend deploy.

CMS for static sites | Go, PostgreSQL, sqlc, React, Astro

2026

- Personal project: a single-binary content management system serving several static Astro sites from one PostgreSQL database, with a React admin app and an OpenAPI contract between backend and frontend. Service-layer tests run against a real PostgreSQL.

EDUCATION

Ho Chi Minh City Open University

2016 - 2020

Major: Computer Science