

Vu Dang Cong Lan

Full-stack Developer · Node.js / TypeScript

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SUMMARY

Full-stack developer with nearly 8 years of Node.js and TypeScript, mostly on microservice back ends. Since December 2023 I have been building REDSUN BOS at Redsun, a multi-shop retail SaaS covering POS, back office, omnichannel sales, loyalty, payments and ads. My work there spans 20+ NestJS microservices that talk over Kafka, the Next.js back-office app and the React Native POS app.

Outside work I build and run Goghim, my own travel-review platform, from back end to deployment. I am looking for a full-stack or back-end role where I can own services end to end.

WORK EXPERIENCE

Full-stack Developer · Redsun — Dec 2023 – Present

REDSUN BOS: multi-shop retail SaaS (POS, back office, omnichannel, loyalty, payments, ads)

NestJS · TypeScript · TypeORM · PostgreSQL · Kafka · Redis · Bull/BullMQ · Elasticsearch · MongoDB · dbt · Next.js · MUI · React Native · Docker

One of the two main contributors to the platform's API gateway, and the main author of the fulfillment and reporting services. Built the deposit, ads and analytics services from scratch.

- **API gateway and SDK:** about 1,460 commits on the NestJS gateway that fronts every service over Kafka RPC, plus the typed TypeScript SDK the front ends call it through.
- **Orders and fulfillment:** order and fulfillment services, reconciliation, e-invoicing through MISA, kitchen-display (KDS) reports.
- **Payments and finance:** SePay payment confirmation, refunds and payment notifications; a deposit service allowing several deposits per order; syncing payments into financial accounting (debts, payment cards).
- **Inventory and loyalty:** FEFO lot picking, two-step warehouse transfers through a transit location, stocktakes that adjust stock on completion, expiry warnings; loyalty programs, rules, member levels and coupon checks on draft orders.
- **Omnichannel:** a provider framework that syncs products and stock with Shopee, Facebook and TikTok Shop.
- **Ads (MKT OS):** built the ads service alone. It pulls spend per campaign, ad set and ad from ad platforms or CSV, converts currencies and maps spend onto the shop's CRM marketing campaigns.
- **Analytics:** main contributor to a warehouse separate from the transactional databases (PostgreSQL + dbt, fed from Kafka, with data-quality and reconciliation logs). Built its reporting service, which isolates each shop's data with PostgreSQL row-level security.
- **Front end:** about 775 commits on the Next.js back-office app (ads connections, token-expiry alerts, AI marketing entry points), and offline-sync recovery in the React Native POS app.

AT A GLANCE

~8 years
Node.js & TypeScript, since Jan 2019

20+
NestJS microservices worked on at Redsun

4
services built from scratch: fulfillment, deposits, ads, analytics

SKILLS

Languages
TypeScript · JavaScript (Node.js) · SQL

Back end
NestJS · Microservices · Kafka · RabbitMQ · Bull/BullMQ · REST APIs · SSE

Data
PostgreSQL · MySQL · MongoDB · SQL Server · ClickHouse · Elasticsearch · Redis · dbt

Front end & mobile
Next.js · React · React Native · MUI · Tailwind CSS

DevOps
Docker · Docker Compose · Kubernetes (basic) · GitHub Actions · Jenkins · Caddy · Google Cloud

Media
Photoshop · Final Cut Pro · CapCut

- **Delivery:** Dockerfiles, deploy scripts and CI (GitHub Actions, Jenkins). Reordering the API gateway's image layers cut a code-only release from 287 MB to about 11 MB pushed, and the image from 1.16 GB to 788 MB.

Back-end / Web Developer · KingFood Mart
Aug 2021 – Nov 2023

kingfoodmart.com, a grocery retail chain

Node.js · NestJS · MongoDB · Elasticsearch · Redis · RabbitMQ · Kafka · Firebase FCM · React · Ajv · Docker

- Built back-end services for reporting, system tracking and third-party integrations on a microservice platform.
- Analysed requirements with the product team and other teams, and turned them into service designs.
- Optimised services to handle large data volumes, and supported teammates.

Back-end Developer · Lixi Technologies (Riviu)
Jan 2019 – Jul 2021

riviu.vn, a food and travel review platform

Node.js · MySQL · Elasticsearch · Redis · RabbitMQ · Firebase FCM · MoEngage · Next.js · Docker · Kubernetes (basic)

- Built back-end APIs in Node.js from product requirements, and developed and optimised features.
- Worked with the mobile, front-end and QC teams to integrate each feature.
- Learned microservice architecture; rated positively by the project lead.

PERSONAL PROJECTS

Goghim · travel-review social platform
Jan 2025 – Present

Personal project, about 710 commits across 9 repositories · live at sandbox.goghim.vn

Node.js · Sequelize · MySQL · Redis · Elasticsearch · RabbitMQ · Next.js · Tailwind CSS · Docker

Users review places, pin them on a personal journey map, react, comment, follow each other and level up through EXP.

- Five Node.js services: users and auth (JWT, OAuth, RBAC), content, locations (Vietnam's post-2025 administrative units), media upload and notifications (SSE, FCM push, email).
- A shared service framework, published as a private npm package on GitHub Packages.
- A Next.js 14 user app and admin console, each with its own BFF, in Vietnamese and English.
- Search, rate limiting and moderation, deployed with Docker Compose on Google Cloud behind Caddy.

Video production tooling
2026

Tools I built and used to deliver paid video edits for overseas creators (short-form reels and long-form YouTube)

- **Motion Kit:** a desktop app with 66 motion-graphic templates written in HTML/JS. It renders them to MP4, or to transparent ProRes for CapCut, DaVinci or Premiere, and syncs a team gallery through a server I host.
- **CapCut automation:** generates editable CapCut projects straight from an edit plan: pause cuts, word-by-word captions from Whisper transcripts, B-roll, memes and sound effects, each on its own layer.
- **3D explainers:** mechanism animations (car differential, planetary gears) rendered frame by frame with Three.js in headless Chrome.

EDUCATION

Aptech Aprotrain HCMC
(Aptech Computer Education)
Software Engineering
Oct 2016 – Dec 2018 · Distinction

Higher Diploma in Software Engineering
May 2019

PERSONAL

Languages
Vietnamese (native), English

Interests
Soccer, guitar, travel, gym, video games