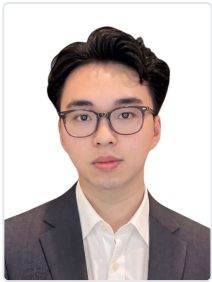


LE NGUYEN

BACKEND SOFTWARE ENGINEER · JAVA / MICROSERVICES / AWS

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📍 Ho Chi Minh City, Vietnam



PROFESSIONAL SUMMARY

Backend Software Engineer **building and operating enterprise backend systems in production**, backed by 4+ years of experience with **Java, Spring Boot, and event-driven microservices**. Has delivered business-critical platforms across the electricity, warehouse automation, and e-commerce domains, supporting billing, payments, CRM, logistics, and order management.

Brings end-to-end experience across the **full software delivery lifecycle**, from backend design and API development to cloud deployment on **AWS and GCP** using Kubernetes and modern CI/CD practices. Prioritizes reliability, maintainability, scalability, and long-term software quality—not just feature delivery.

TECHNICAL SKILLS

CORE BACKEND	Java 17 (also Java 8/11), Spring Boot 3, Spring Cloud, Spring Security, OAuth 2.0 / SSO, REST / OpenAPI, MyBatis, JPA / Hibernate, Node.js / NestJS
DATA & MESSAGING	PostgreSQL (+FDW), MySQL, Redis, MongoDB; Apache Kafka, Debezium (CDC), RabbitMQ; Elasticsearch / OpenSearch
CLOUD & DEVOPS	AWS, GCP, Docker, Kubernetes, Helm, Argo CD, Jenkins, GitLab CI/CD, Nginx
OBSERVABILITY & TESTING	Prometheus, Grafana, New Relic; JUnit, Mockito, Spring Boot Test
FRONTEND & REAL-TIME	TypeScript, Vue 3 / Nuxt 3, Pinia; WebSocket, SSE, PWA, FCM Web Push
ARCHITECTURE & PRACTICES	Microservices, distributed systems, multi-tenant architecture, test-driven development (TDD), code review, technical documentation, Agile / Scrum, AI-assisted development (Claude Code, Cursor, GitHub Copilot)

PROFESSIONAL EXPERIENCE

Software Engineer — CustomJapan.net · Japanese Auto & Bike Parts E-commerce 2026/04 – Present

Hopee Solutions · Microservices · High-traffic e-commerce (~925K SKUs) on Google Cloud · Team of 6

Japanese e-commerce platform serving end users and business administrators, supported by microservices and Google Cloud workloads for product and warehouse data synchronization, notifications, and other operational workflows.

- Own the **end-to-end notification platform** across backend, frontend, and cloud operations, from requirements analysis and solution design through implementation, production deployment, technical documentation, monitoring, and support.
- Designed and implemented a PWA notification system combining **FCM Web Push** and **Server-Sent Events (SSE)** for browser push and in-app real-time notifications across browsers and devices, with retry handling, duplicate-delivery prevention, cookie security, and CORS configuration.
- Built **NestJS** backend services and **Vue 3 / Nuxt 3** features; orchestrated asynchronous and recurring data synchronization using Cloud Tasks and Cloud Scheduler; automated Cloud Run deployments through Cloud Build with controlled production rollouts.

Stack: NestJS, PostgreSQL, Redis · Vue 3, Nuxt 3, PWA, FCM, SSE · Cloud Run, Cloud Tasks, Cloud Scheduler, Cloud Build, Cloud CDN

Software Engineer — CIS · Enterprise Electricity Business Management System

2024/04 – 2026/03

Hopee Solutions · Enterprise microservices platform on AWS and Kubernetes · Team of 18

Enterprise platform delivered to Japanese electricity providers for managing contracts, electricity data, billing and payments, CRM, customer inquiries, identity and access, and scheduled integrations with government and external systems.

- Served as a **core engineer** across an enterprise microservices platform, designing **shared backend foundations** for communication, authentication and authorization, reusable components, API standards, and batch processing; conducted code reviews and mentored new engineers.
- Designed and implemented distributed workflows, coordinating cross-service operations and rollback handling to maintain **data consistency during partial failures**.
- Built and optimized **billing, payment, and batch-processing services** involving complex PostgreSQL/MyBatis queries, FDW, Redis caching, file processing, concurrency control, race-condition handling, and thread-pool tuning.
- Migrated legacy functionality and production data from a monolith to distributed services with **zero data loss** and backward compatibility, while integrating government services and external providers.
- Automated deployments on **AWS and Kubernetes** using Helm, Jenkins, GitLab CI/CD, and Argo CD; diagnosed production issues through New Relic, Prometheus, and Grafana, and produced technical design documentation.

Stack: Java 17, Spring Boot 3, PostgreSQL/FDW, Redis, Kafka, Debezium, Liquibase · AWS, Kubernetes, Helm, Argo CD, Jenkins, GitLab CI/CD, New Relic

Software Engineer — Warehouse Execution System (WES)

2023/02 – 2024/03

Hopee Solutions · Robotics-integrated logistics & fulfillment · Team of 6

Enterprise platform automating warehouse order fulfillment — robotics control, product scanning, monitoring and analytics across SPA/PWA apps and Spring Boot backends.

- Built core WES and analytics services, including a **high-concurrency, event-driven backend** supporting real-time logistics robot operations over **WebSocket**.
- Designed a **multi-tenant architecture** enabling multiple warehouses to operate on one platform with isolated data.
- Optimized **processing performance and database queries**, and monitored **high-concurrency workloads**.

Stack: Java 11, Spring Boot 2, MySQL, Elasticsearch, Redis, RabbitMQ, WebSocket, Vue.js, Node.js

Software Engineer — Library Management System

2022/06 – 2023/01

Production-deployed web & Windows desktop applications · Team of 2 · 🏆 1st Prize — Library Management Software Contest, College of IT HCMC

Built and deployed web and Windows desktop applications sharing a Spring Boot backend; owned **database design, UI/UX, backend, frontend**, payment/revenue management, CRM, notifications, and reporting.

Stack: Java, Spring Boot, MySQL, Java Swing, Vue 2

■ EDUCATION

🎓 University of Information Technology (UIT), VNU-HCM

Bachelor — Artificial Intelligence · In progress · GPA 8.8/10

🎓 College of Information Technology, HCMC

Advanced Diploma in IT · High Distinction

■ CERTIFICATIONS & LANGUAGES

🏷️ **AWS Certified Solutions Architect – Associate** (SAA-C03) · Dec 2024

🌐 **English — CEFR B1 (Intermediate)** · Comfortable reading technical documentation