NGUYEN QUOC HIEU

Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Full-stack software engineer with hands-on experience in Java/Spring Boot microservices, cloud-native architectures and healthcare data interoperability (HL7/FHIR); certified in SNOMED CT. At FPT IS I worked on a provincial healthcare data warehouse, a hospital cloud EMR deployment and an R&D healthcare platform, and I have built two personal full-stack products: an enterprise HR platform and a CMS and commerce platform. Seeking to deliver scalable backend systems and streamline clinical data exchange for enterprise and healthcare organizations.

SKILLS

Languages	Java, JavaScript, TypeScript, SQL, Dart
Backend	Spring Boot, Spring Modulith, Spring Data JPA, J2EE/Servlets, NestJS, Microservices, REST APIs, JWT, Swagger/OpenAPI
Frontend & mobile	React, Next.js, Redux, Redux-Saga, Angular, Ant Design, Tailwind CSS, TanStack Query, Flutter, React Native
Databases	MySQL, PostgreSQL, MongoDB, Redis, Flyway, Prisma
Messaging & integration	Kafka, IBM MQ, ETL pipelines, HL7/FHIR
Healthcare standards	SNOMED CT (certified), HL7/FHIR, healthcare data interoperability
Security	Keycloak (OIDC), OAuth2, RBAC, Vault, Spring Security, Encryption
DevOps & cloud	Docker, CI/CD, GitHub Actions, Jenkins, nginx, Cloudflare R2, Linux, Cloud deployment
Testing	JUnit, Postman, Vitest, Playwright, Supertest, Testing Library
Systems & networking	Linux, Windows, macOS, TCP/IP, HTTP
Practices	Clean architecture, SOLID, Domain-driven design, Agile / Scrum, Git & GitHub

PROFESSIONAL EXPERIENCE

Full-Stack Web Developer — FPT IS

Jul 2024 – Present · Ho Chi Minh City

- Built ETL pipelines and tuned analytical queries for a provincial healthcare data warehouse (Quang Ninh Department of Health), and implemented access control and encryption for sensitive clinical records.
- Took part in the cloud EMR deployment at Go Vap Hospital: set up cloud infrastructure, tailored EMR modules, resolved device, server and cloud integration issues on site and supported go-live (zero downtime reported for 24/7 departments).
- Worked in R&D on the AZLADIN digital healthcare platform: proof-of-concept architectures, foundational microservices following clean architecture, and technology benchmarking with product and architecture teams.
- Built RESTful APIs for an internal PMO platform (HPC division) that automate progress metrics, timesheet aggregation and sprint tracking.

Junior Java Developer — FPT IS Jun 2022 – Sep 2023 · Ho Chi Minh City

- Developed and maintained business modules of the SFLASH enterprise task-management platform (clients: VINASOY, YAMAHA, TRANSIMEX) with Java, Spring Boot and MySQL in a 10-member Agile team.
- Refactored legacy REST APIs to reduce latency and keep transactions consistent; designed payload-optimized mobile endpoints validated with Postman.
- Integrated asynchronous messaging and automated task notifications with IBM MQ.
- Built cross-platform features in Flutter and web interfaces in React.js (Redux, Redux-Saga); maintained Angular modules.
- Supported production go-lives: monitored availability, tracked latency and shipped hotfixes.

Fresher Java Developer — FPT Telecom Aug 2020 – Dec 2020 · Ho Chi Minh City

- Built CRUD REST APIs with Java and Spring Boot for an internal call-center management platform; implemented filtering, sorting and pagination to speed up customer-record lookups.
- Integrated Spring Data JPA with MySQL and helped design MongoDB schemas for chat logs and interaction history.
- Wrote Postman integration test collections, applied SOLID and clean-code practices and used GitHub pull-request workflows.

Fresher Java Developer — ATP Software Dec 2019 – Jul 2020 · Ho Chi Minh City

- Developed REST endpoints in Java and Spring Boot for an automotive e-commerce and dealership platform and helped integrate JWT-based authentication.
- Designed relational schemas, optimized SQL queries and indexes, and documented APIs with Swagger/OpenAPI.
- Wrote JUnit tests and Postman collections, fixed defects with root-cause analysis and worked with the Angular front-end team.

SELECTED PROJECTS

Provincial Healthcare Data Warehouse APR — JUN 2026

Mid-Level Software Engineer · FPT IS

- Engineered high-throughput ETL data pipelines to ingest fragmented Electronic Health Records (EHR) from distributed healthcare facilities.
- Cleaned and standardized incoming records so every facility's data lands in one consistent, trustworthy source of truth.

Tech: Java · Spring Boot · SQL · ETL

Cloud Electronic Medical Records OCT 2025 — JAN 2026

Technical Implementation & Developer · FPT IS

- Set up the cloud infrastructure for the EMR platform.
- Customized the core EMR application modules to align closely with multidisciplinary hospital workflows.

Tech: Cloud · EMR · Integration · Operations

AZLADIN Digital Healthcare Platform JUL 2024 — AUG 2025

Mid-Level R&D Software Engineer · FPT IS

- Researched emerging software paradigms and rapidly prototyped proof-of-concept (PoC) architectures to validate feasibility of complex product requirements.
- Owned and developed foundational microservice modules using clean-architecture principles.

Tech: Spring Boot · Microservices · APIs · R&D

Internal PMO Management Platform MAR — APR 2026

Backend Developer · FPT IS

- Designed and deployed robust RESTful APIs to automate daily progress metrics.
- Automated timesheet aggregation and sprint task-tracking workflows.

Tech: REST APIs · Workflow automation · Agile

STR HRM — Enterprise HR Platform AUG — NOV 2026

Full-Stack Developer · Personal project

- Built the Spring Boot backend as a modular monolith (Spring Modulith) with separate api/internal packages per module and a PostgreSQL schema evolved through Flyway migrations.
- Implemented attendance with several check-in methods — face recognition with anti-fraud checks, GPS and office Wi-Fi — on a raw-event model with timesheet locking.

Tech: Java · Spring Boot · React · Flutter · PostgreSQL

12Testers — Google Play Closed Testing Platform NOV 2026

Full-Stack Developer · Personal project

- Designed the npm-workspaces monorepo: Next.js 16 App Router frontend, NestJS 12 API and shared constants, types and zod-schema packages.
- Modeled the PostgreSQL schema with Prisma: users, roles and permissions with data scopes, organizations, plans, orders, payments, refunds, projects, milestones, testers, tickets, leads and CMS pages.

Tech: Next.js · NestJS · PostgreSQL · Prisma

EDUCATION

FPT Polytechnic College Aug 2019 – Dec 2021 · Ho Chi Minh City

Associate Degree in Website Design & Programming

CERTIFICATIONS

SNOMED CT Foundation Course — SNOMED International Sep 2024

View certificate: drive.google.com/file/d/17qmeoKG1KC0o20jCc2O-C8I7osNtPJ6u/view

Java Backend Web Developer — Cybersoft Academy Jul 2020 – Feb 2021

LANGUAGES

English	Intermediate — technical reading and writing, working communication
Vietnamese	Native