

NGUYỄN HỮU ĐỨC

Full-stack Developer

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Professional Summary

Full-stack Developer with over one year of experience building and maintaining enterprise web and mobile applications. Experienced in developing user-facing features, backend services, RESTful APIs, realtime communication, and database-driven systems using Next.js, React Native, NestJS, ASP.NET Core, Spring Boot, PostgreSQL, MongoDB, and MySQL. Interested in scalable backend architecture, distributed systems, clean code, and production-ready software.

Technical Skills

Languages: TypeScript, JavaScript, C#, Java, SQL

Frontend: Next.js, React.js, React Native, Expo, HTML5, CSS3, Tailwind CSS

Backend: NestJS, ASP.NET Core Web API, Spring Boot, RESTful API, WebSocket, JWT Authentication

Databases: PostgreSQL, MongoDB, MySQL

Messaging & Caching: Apache Kafka, Redis

Tools & DevOps: Docker, Docker Compose, Git, Postman, Swagger, Firebase, Linux

Architecture: Clean Architecture, Multi-tenant Systems, Event-driven Architecture, Microservices (learning)

Professional Experience

KAS Technology

Full-stack Developer

Aug 2025 – Present

Ho Chi Minh City, Vietnam

- Develop enterprise web applications using Next.js, React, and TypeScript.
- Build and maintain cross-platform mobile applications using React Native and Expo.
- Design and implement backend APIs and business logic using NestJS and ASP.NET Core.
- Develop and maintain RESTful APIs consumed by both web and mobile applications.
- Design database schemas and work with PostgreSQL, MongoDB, and MySQL for application data storage.
- Integrate authentication, realtime communication, notifications, payment-related services, and third-party APIs.
- Investigate production issues, perform root-cause analysis, and deliver fixes to improve application stability.
- Collaborate with Product Owners, UI/UX Designers, QA Engineers, and other developers throughout feature delivery and release cycles.

Personal Project

Microservice Social Platform | Spring Boot, Spring Cloud, Kafka, Redis, Keycloak, Docker

- Designed and implemented a social networking platform as a hands-on project to study Microservice Architecture and distributed systems.
- Decomposed the system into independent services for user management, friendship relationships, authentication, and realtime chat.
- Configured Spring Cloud Gateway as the single entry point for request routing and centralized access control.
- Used Eureka Server for service discovery and dynamic service registration between independently deployed services.
- Integrated Keycloak with Spring Security and JWT for authentication, authorization, and Google login support.
- Implemented synchronous service-to-service communication with REST APIs and asynchronous event-driven communication with Apache Kafka.
- Used Redis to cache frequently accessed data and reduce repeated database queries.
- Implemented realtime one-to-one and group messaging using WebSocket.
- Applied database-per-service concepts using MySQL and MongoDB based on each service's data characteristics.
- Containerized application services and infrastructure dependencies using Docker and Docker Compose for reproducible local deployment.
- Explored distributed-system concerns including service boundaries, loose coupling, data consistency, fault isolation, and scalability.

Education

Sai Gon University

Engineer of Information Technology

Oct 2021 – 2026

Ho Chi Minh City, Vietnam