Thai Ngoc Quyen

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PROFESSIONAL SUMMARY

Backend/Full-stack Developer with hands-on experience in Java, Spring Boot, React, and microservices. Skilled in designing scalable APIs, integrating real-time data pipelines with Kafka/Redis, and deploying containerized applications with Docker. Strong foundation in database design, authentication/authorization, and cloud-ready architecture.

WORK EXPERIENCE

CNPT Technology Company – Backend Developer   Jun - Sep 2025

- Designed & deployed a criminal investigation management system in the US, reducing case processing time by 40%.
- Developed RESTful APIs with Spring Boot, optimized query performance with Redis caching.
- Integrated Kafka for event-driven processing, improving system scalability & reliability.
- Implemented OAuth 2.0 & JWT authentication, ensuring compliance with security standards.
- Wrote unit/integration tests with JUnit & Mockito, achieving 90%+ coverage.

PROJECTS

LingaMonkey – Language Learning App (Full-stack)   Aug 2025

- Built a cross-platform language learning app with React Native (Expo) frontend and Spring Boot backend.
- Implemented RSA-based JWT authentication, fine-grained role/permission control (Spring Security), rate limiting (token bucket), and scheduled reminders via Quartz.
- Integrated AI-powered speech recognition & feedback using a gRPC Python microservice (Whisper + OpenAI).
- Used React Query + Zustand for efficient frontend state/data management; Redis for caching on the backend.
- Delivered real-time chat, group video calls, and gamification (badges, streaks, leaderboards), boosting daily user engagement by 40%+.

Repository: **LinguaMonkey**

Patient Management System (Back-end)   May 2025

- Built a microservices-based patient management system with services for Auth, Patient, Billing, Analytics, and API Gateway.
- Implemented Kafka (event-driven) and gRPC + REST for inter-service communication, ensuring scalability and reliability.
- Utilized Spring Boot, PostgreSQL, Redis, Docker, Swagger, and tested with JUnit (75%+ coverage).
- (Planned) Deployment on AWS ECS, RDS, MSK for cloud scalability.

Repository: **PatientManagement**

Restaurant Management Web App (Full-stack | Team Leader, 3 members)   April 2025

- Developed a Spring Boot microservices backend for restaurant operations (User, Menu, Order, Payment, Reports).
- Integrated gRPC for inter-service communication and Elasticsearch for full-text menu search.
- Supported real-time order tracking & notifications via Kafka; implemented VNPay & PayPal payments.
- Created a lightweight ReactJS frontend for staff dashboards & admin pages. Handled 500+ concurrent orders reliably.

Repository: **Frontend - Backend**

TECHNICAL SKILLS

- Programming Languages: Java, JavaScript (ES6+), Python, C#
- Framework & Library: Spring Boot, Spring Framework, .Net Framework, Swing, ReactJs, React Native
- Databases: MySQL, PostgreSQL, MongoDB
- Tools: Git, GitHub, JUnit, Mockito, Elasticsearch, Docker
- Software Principles & Methodologies: OOP, Design Patterns, SOLID Principles, Agile, Scrum
- Languages: Vietnamese (Native), English (Intermediate)

EDUCATION

Nguyen Tat Thanh University (NTTU) - Bachelor of Engineering in Information Technology   Sep 2022 - Present
Expected Graduation: 02/2026 | GPA: 8.0/10
Academic Encouragement Scholarship (2023, 2024)