

Thai Ngoc Quyen

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PROFESSIONAL SUMMARY

Backend-focused Software Engineer with strong experience in Spring Boot, microservices, and distributed systems. Skilled in designing scalable and reliable architectures, with additional hands-on experience in full-stack development for end-to-end project delivery

WORK EXPERIENCE

CNPT Technology Company — Back-end Developer

July 2025

- Designed and deployed a software system for managing criminal investigations in the US, streamlining case resolution processes.
- Developed and integrated RESTful APIs using Spring Boot, ensuring efficient and secure data retrieval, with Redis caching to optimize performance.
- Built inter-service communication with Kafka, improving system reliability and scalability.
- Led team efforts in implementing authentication services with OAuth 2.0 and JWT, ensuring compliance with security standards.
- Collaborated in Agile teams, delivering features in iterative sprints and maintaining clear project documentation, while applying unit and integration testing with JUnit and Mockito to ensure code quality.

PROJECTS

LinguaMonkey - Language Learning App (Full-stack Developer)

August 2025

- Designed and implemented a Spring Boot monolith backend with JWT-based auth (RSA), role/permission management and Uber's Token Bucket rate limiter.
- Integrated Redis for caching data, swagger for API document, Socket.IO for real-time chat, firebase auth for google and facebook provider sign in, Quartz schedule for cleaning log and send reminder notification.
- Developed a Python FastAPI service (gRPC) leveraging OpenAI and Whisper Transformer for audio transcription, pronunciation analysis and AI-driven feedback.
- Orchestrated seamless communication between Spring Boot and Python service via asynchronous gRPC.
- Built a React Native Expo frontend using Zustand for state, react query for data fetching, Jitsi Meet for in-app video calls, and Cloudinary for direct media uploads.
- Implemented full i18n support (Spring Boot + React Native) for multi-language UI and content.

Repository: [LinguaMonkey](#).

Restaurant Web Application (Full-stack Developer) | Team size: 3 - Team Leader

April 2025

- A full-stack restaurant management system built with microservices architecture using Spring Boot, gRPC, MySQL, Docker, and ReactJS.
- Implemented secure JWT authentication, role-based access control, real-time chat via Socket.IO, and Redis caching.
- Integrated AI chatbot for dish suggestions and table bookings.
- Elasticsearch for full-text search, Kafka for event-driven order tracking, and multiple payment gateways (VNPAY, PayPal).
- Responsible for designing gRPC APIs, implementing authentication & authorization, and optimizing backend performance and caching.

Repository: [Frontend - Backend](#)

ADDITIONAL INFORMATION

- Programming language: Python, Java, C#, Javascript
- Technologies: Spring Framework, PostgreSQL, MySQL, SQL Server, ASP.NET, MongoDB, Kafka, Redis, Docker, Git, JUnit
- Core Competencies: Problem Solving, Ownership, Time Management, Teamwork, Adaptability
- Language skills: Vietnamese (Native), English (Intermediate)

EDUCATION

Nguyen Tat Thanh University (NTTU) - Bachelor of Engineering in Information Technology

Sep 2022 - Present

Expected Graduation: 02/2026 | Ho Chi Minh City, Vietnam

GPA: 8.0/10 | Scholarship: Academic Encouragement (2023, 2024, 2025)