



# NGÔ QUANG NGHĨA

## BACKEND DEVELOPER

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**Portfolio:**

### INFORMATION

As a driven software engineer, I focus on leveraging cutting-edge technology, especially in Java, to solve problems and improve efficiency. I view challenges as opportunities to enhance my skills and contribute to meaningful outcomes. With a commitment to learning and growth, I strive to optimize processes, boost productivity, and deliver high-quality solutions that create real value. I am also highly adaptable, quickly adjusting to new environments and technologies. My goal is to continuously improve, both personally and professionally, to make a lasting impact through innovative software solutions.

### WORK EXPERIENCE

#### INTERN JAVA DEVELOPER - FPT SOFTWARE

6/2024-9/2024

- I explored and gained in-depth knowledge in Spring, Spring Framework, and Spring Boot through my participation in the Fresh Academy Class Management project provided by FPT Software.
- This experience allowed me to understand the full lifecycle of a project, from gathering specifications, moving through design and implementation, and extending to maintenance. I was also actively involved in project planning using Jira, managing version control and reviewing code on GitLab. Regularly reporting progress to my mentor, I ensured alignment with project goals.

### SKILLS

**Programming Languages:** Java, Python, Basic C++, C#, Kotlin

**Front-End Technologies:** HTML5, CSS3, JavaScript, ReactJS, Responsive Design, Bootstrap.

**Back-End Technologies:** Spring Boot (RESTful API, JPA, Validation, WebSocket)

**Database Systems:** MySQL, Microsoft SQL Server, SQLite, Postgresql, MongoDB, Firebase

**Dev Tools:** VS Code, Git, GitHub, GitLab, Postman, IntelliJ, Eclipse, StarUML, Jira, Docker, Katalon Studio.

**Others:** OOP, Design Patterns, Git, RESTful API design, Testing with Katalon Studio, Postman, Basic knowledge of Redis, VPS, Message Queuing, Experience deploying to Vercel, Railway, Google Cloud.

**Soft Skills:** Collaboration, problem-solving, critical thinking, self-learning, presentation.

### EDUCATION

#### Ho Chi Minh City University of Technology and Education

9/2021- Present

- **Major:** Information technology
- **GPA:** 3.58/4.00
- **Academic classification:** Good

### CERTIFICATE

Toeic 605

6/2023

**Java Programming: Solving Problems with Software**  
(Coursera)

7/2023

### AWARDS

Unversity scholarship for excellent achievement  
academic semester: Semester 1 & Semester 2 Ho Chi  
Minh University of Technology and Education

## PROJECT

### WEBSITE FOR STUDENT SUPPORT AND CONSULTING AT HCMUTE 9/2024-12/2024

Team size: 2

Position: Back-end Developer

Source:

- Frontend: <https://github.com/ThaiVanHandSome/hcmute-consultant-client.git>
- Backend: <https://github.com/quangnghia1110/Nam4HocKy1TLCN.git>

Technologies used:

- Front-end: ReactJS
- Back-end: Spring Boot, Spring Security, JPA, WebSocket, MySQL

Main features:

- A platform for students to ask questions, discuss, and receive consultation from the school on various topics such as academics, tuition, extracurricular activities, and research.
- Role-based access: Admins manage the entire system; advisors and consultants handle tasks within their departments; users can ask questions, schedule consultations, and leave feedback.
- Functionalities include user authentication, profile management, real-time messaging, question and answer management, and reporting/analytics for admins.

Responsibilities:

- Designed and implemented the system architecture, integrating ReactJS for the front-end and Spring Boot for the back-end.
- Developed user authentication (registration, login, password recovery) using Spring Security and JWT.
- Built real-time features like messaging and live consultation scheduling with WebSocket.
- Managed database operations using JPA and MySQL.
- Utilized third-party services like Cloudinary for image management and Google API for email notifications.

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### BUILDING AN E-COMMERCE WEBSITE FOR ELECTRO COMPANY 3/2024-8/2023

Team size: 1 (Personal Project)

Position: Front-end Developer, Back-end Developer

Source Code: [https://github.com/quangnghia1110/electro\\_ecommerce.git](https://github.com/quangnghia1110/electro_ecommerce.git)

Technologies used:

- Front-end: ReactJS
- Back-end: Spring Boot, Spring Security, JPA, MySQL, WebSocket
- Third-party services: PayPal, Giao Hàng Nhanh (Shipping Service)

Main features:

- Customer-facing functionalities:
  - User authentication (login, registration, profile management).
  - E-commerce features such as product browsing, adding to cart, order placement, and payment via PayPal.
  - Integration with Giao Hàng Nhanh for delivery tracking.
- Admin dashboard:
  - Manage employees, customers, products, inventory, and orders.
  - Approve customer reviews and create promotional programs.
  - Export/import data in CSV and PDF formats.
- Employee module:
  - Monitor inventory and support customer interactions through the system.

Responsibilities:

- Designed and implemented the system's architecture, ensuring scalability and security.
- Developed REST APIs for managing orders, products, users, and shipping integration.
- Built the front-end using ReactJS to provide a seamless and responsive user interface.
- Implemented authentication and authorization using Spring Security with JWT.
- Integrated real-time order updates and notifications via WebSocket.
- Managed database design and operations using MySQL and JPA.

## FIMAE - FRIEND CONNECTION APP

2/2024-5/2024

Team Size: 4

Position: Team Leader, Front-end Developer, Back-end Developer

Source Code: <https://github.com/quangnghia1110/Fimae.git>

Technologies Used:

- Front-end: Java
- Back-end: Spring Boot (Java), Firebase, Stringee

Main Features:

- Android social networking app with messaging, voice, and video calls.
- Profile setup, notifications, and privacy settings (reporting/blocking users).
- Post creation with visibility options: public, private, or friends-only.
- Additional features include short-form videos (shorts), stories, and content sharing.

Responsibilities:

- Managed the team and designed the database.
- Integrated Firebase for real-time data synchronization and notifications.
- Developed core features like messaging, calls, privacy settings, and post creation.
- Enhanced the app with features for sharing short videos and stories.

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## MILK TEA E-COMMERCE WEBSITE

9/2023-12/2023

Team Size: 10

Position: Team Leader, Front-end Developer, Back-end Developer

Source Code: [https://github.com/quangnghia1110/project\\_java\\_web.git](https://github.com/quangnghia1110/project_java_web.git)

Technologies Used:

- Front-end: HTML, CSS, JavaScript, Bootstrap
- Back-end: Spring Boot, JPA, Spring Security, Microsoft SQL Server

Main Features:

- User registration and login authentication using Spring Security.
- Shopping cart, VNPay payment integration, and milk tea ordering functionality.
- Profile management for users and an admin panel for managing categories, products, users, and statistics.

Responsibilities:

- Led the team and managed the project development.
- Designed the database and authentication interface.
- Developed the entire authentication interface (login, register, forgot/change password).
- Built and handled CRUD operations for the admin panel.

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## UTETUBE - ONLINE MUSIC VIDEO WATCHING WEBSITE

6/2023-8/2023

Team Size: 1 (Personal Project)

Position: Front-end Developer, Back-end Developer

Source Code: <https://github.com/quangnghia1110/Nam2HocKyHePolyTube.git>

Technologies Used:

- Front-end: HTML, CSS, JavaScript, Bootstrap
- Back-end: Spring Boot, Servlet, Hibernate, Microsoft SQL Server

Main Features:

- Online platform for users to watch and interact with music videos.
- Features include video browsing, search by title or category, video details display (thumbnails, view counts, descriptions).
- User management functionalities: registration, login, profile updates.
- Admin features: manage users, add new videos, view user activity reports.

Responsibilities:

- Developed the entire platform as a solo developer, handling both front-end and back-end development.
- Built the user interface with HTML, CSS, JavaScript, and Bootstrap for smooth user interaction.
- Implemented back-end functionalities using Spring Boot, Servlet, Hibernate, and Microsoft SQL Server.
- Independently researched technologies and resolved challenges through online documentation and resources.