LE QUOC TRUNG
Backend Developer Intern

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CAREER OBJECTIVE

Seeking Backend Developer internship to contribute to scalable backend systems and API development. Eager to apply hands-on experience in microservices architecture, database optimization, and AI integration while expanding technical expertise in production-level backend development.

EDUCATION

Ho Chi Minh City Open University   Ho Chi Minh City, Vietnam
Bachelor of Computer Science   2022 – 2026 (Expected)
Current GPA: 3.3/4.0
Academic Scholarships: Semester 2 (2023–2024), Semester 1 (2024–2025),
Semester 2 (2024–2025)

TECHNICAL SKILLS

- **Languages:** Java, Python, C++, HTML/CSS, JavaScript.
- **Spring Framework:** Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Spring Cloud Gateway, Flask API, ReactJS
- **Database Management:** MySQL, MongoDB, SQL Server, Database Design, Query Optimization
- **API and Architecture:** RESTful APIs, API Documentation, MVC, MVT, Microservices.
- **Development Tools:** Git/GitHub, Docker, Maven, Postman, Database Management Tools
- **Programming Foundations:** Object-Oriented Programming, Data Structures and Algorithms, Database Design
- **AI/ML APIs:** Google Gemini API, Text-to-Speech API, Vector Embeddings, RAG (Retrieval-Augmented Generation)

PROJECTS

AI-Powered News Platform - Microservices Backend (Jun 2025 – Present)   [GitHub]
Role: Backend Developer — **Status:** In Development
Tech Stack: Java, Spring Boot, Spring Cloud Gateway, OpenFeign, Apache Kafka, MySQL, MongoDB, Docker, Python.

- **Built microservices system** with 6 services: Identity, Content Management, AI Integration, Notification, Comment, and Search
- **Implemented API Gateway** using Spring Cloud Gateway for routing and authentication
- **Integrated Google Cloud APIs** including Gemini API for article summarization, Text-to-Speech API for audio content generation
- **Built RAG chatbot system** using Gemini embedding model to store vectors in database, enabling context-aware QA responses
- **Developed event-driven architecture** using Apache Kafka for asynchronous inter-service communication
- **Designed hybrid database strategy** distributing data between MySQL and MongoDB for optimal performance
- **Applied security layer** with JWT authentication and OAuth2 integration

E-commerce System (Mar 2025 – May 2025)   [GitHub]
Role: Backend Developer — **Team Size:** 2 members
Tech Stack: Java, Spring MVC, Spring Security, Spring Data JPA, MySQL

- **Developed complete backend** using Spring MVC with layered architecture pattern
- **Built authentication system** combining JWT and Google OAuth2 with role-based access control

- **Created REST API suite** for user management, product catalog, orders, and payments
- **Integrated VNPay payment gateway** with secure transaction handling and verification
- **Implemented cloud storage** using Cloudinary for product image management
- **Optimized database queries** and designed efficient data relationships

Student Management System (Oct 2024 – Dec 2024)   [GitHub]
Role: Backend Developer — **Team Size:** 3 members
Tech Stack: Python, Flask, SQLAlchemy ORM, MySQL

- **Built Flask backend** using MVT pattern for organized code structure
- **Implemented database layer** with SQLAlchemy ORM and proper model relationships
- **Created role-based system** supporting Students, Teachers, and Administrators
- **Applied clean architecture** with separation between models, business logic, and views

CERTIFICATIONS

- **IoT Development Certificate** - Samsung Innovation Campus (2024)
- **English:** TOEIC 700 (2025) - Can read technical documents and communicate in work.