

DAO DUC TAM

SOFTWARE ENGINEER

☎ (+84) 825159401 | ✉ tamdao1742005@gmail.com | 🌐 daoductam

Summary

- Company: NTQ Solution
- Position: Java Developer
- Third-year Software Engineering student (Hanoi University of Industry) with a strong focus on Java Backend development. Passionate about building scalable, high-performance systems. Eager to join a professional environment to apply technical skills and contribute to real-world projects.

Education

Hanoi University of Industry

B.S. IN SOFTWARE ENGINEERING

Vietnam

Aug. 2023 - Aug. 2027

- GPA: 3.39/4.0

Work Experience

FREELANCER

Vietnam, 6/2025 - 9/2025

LOYALTY PROGRAM

- Built a scalable Loyalty System (**Java Spring Boot**, **PostgreSQL**) for user management, ordering, and real-time points.
- Implemented **JWT** for Authentication/Authorization and integrated **SMTP** for secure OTP delivery.
- Used **Minio** (Singleton pattern) for avatar uploads with file size ($\leq 5 MB$) and format validation.
- Achieved $\geq 80\%$ test coverage by applying **Clean Code** principles and **Unit Tests** (JUnit, Mockito).
- Developed versioned **REST APIs** (/api/v1/) with OpenAPI (Swagger) documentation.
- Optimized database performance by analyzing query execution plans (tested with **10,000 dummy orders**).
- Containerized with **Docker** and managed secrets with **Hashicorp Vault** for secure deployment.
- **Technologies:** Java, Spring Boot, PostgreSQL, Docker, Minio, Redis, MongoDB, Vault, Kafka, Mockito, OpenAPI.

Projects

HOSPITAL MANAGEMENT SYSTEM - PERSONAL PROJECT

9/2025-now

- Developed a **microservices** system (**7 services**) using **Java Spring Boot/Cloud**, **JPA**, & **Spring Security (JWT)**.
- Designed and implemented the frontend SPA using **React**, **TypeScript**, **Tailwind CSS**, & **Redux Toolkit**.
- Built and integrated (**30+ APIs**) for core modules (Patient/Doctor Management, Appointments, Pharmacy).
- Performed code reviews, optimized backend-frontend communication, & ensured system scalability.
- **Technologies:** Java Spring Boot, Spring Cloud, Spring Security, React, TypeScript, Tailwind CSS, MySQL, Docker.

TRAIN MANAGEMENT SYSTEM - SCHOOL PROJECT

10/2024 - 12/2024

- Designed and implemented a train ticket system using **Java Swing** (GUI) and **MySQL** (storage).
- Created **MySQL schema** (5+ tables) and implemented **DAO** classes (using **JDBC**) for CRUD operations.
- Developed **6 core modules** (Booking, Passenger, User Management, etc.) following **OOP** principles.
- Conducted code reviews and integrated components to ensure system functionality and consistency.
- **Technologies:** Java Swing, JDBC, MySQL, OOP.

Skills

- **Programming languages:** **Java** (Primary Focus), Python, TypeScript, Javascript.
- **Frameworks & Libraries:** Spring Boot, Spring Cloud, Spring Security, React, Redux Toolkit.
- **Databases:** SQL (MySQL, PostgreSQL).
- **Tools & Platforms:** Git, Docker, Linux, Jira.
- **Others:** Kafka, Redis, RESTFUL API, OOP.

Languages

- **English:** TOEIC 600.
- **Japan:** JLPT N5.