

# TRAN THANH PHONG

Backend Developer

Ho Chi Minh City, Viet Nam | 0901667314 | thanhphong.tarrots@gmail.com

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## SUMMARY

Over 4 years of experience as a Java Backend Developer, specializing in developing and maintaining scalable web applications using Spring Boot, Microservices, and JPA.

Strong analytical and problem-solving skills with solid experience in database design, performance tuning, and distributed systems.

Experienced in developing an SSO (Single Sign-On) module for system-wide authentication to synchronize user login and enhance user experience.

Proficient in Agile/Scrum methodologies and cross-functional collaboration.

## TECHNICAL SKILLS

Programming Languages: Java (7, 8, 11, 17)

Frameworks: Spring Boot, Spring MVC, Clean Architecture, Struts2, ReactJS

Databases: MySQL, MariaDB, PostgreSQL, Oracle

ORM: JPA, Hibernate, MyBatis, JDBC, Redis

Messaging & Streaming: Kafka, RabbitMQ

DevOps & Tools: Docker, Git, GitLab CI/CD

Testing: JUnit, Mockito

## EDUCATION

Saigon University, Ho Chi Minh City — Information Technology (2018 – 2022)

## PROFESSIONAL EXPERIENCE

### **Software Developer — FPT IS, Ho Chi Minh City | April 2025 – Present**

Participate in the development of enterprise-grade web applications and backend services.

Develop SSO (Single Sign-On) module, integrate camera monitoring systems, email notification services, automated report scheduling, and optimize system performance.

Support API integrations, system enhancements, and maintain code quality through code reviews and unit testing.

### **Software Developer — IMT Solution, Ho Chi Minh City | August 2022 – April 2025**

Participated in the development of enterprise-grade web applications and backend services.

Maintained and enhanced systems using Spring Struts 2 and Spring Boot.

Contributed to system optimization, deployment support on client environments, and development and performance tuning of reporting modules.

Supported API integrations, system enhancements, and ensured code quality through code reviews and unit testing.

## PROJECTS

### **Internet of Connectivity (IoC Platform) — FPT IS**

April 2025 – Present | Team size: 15

Overview: Developed an IoT platform that manages smart device connections, scheduling, and data synchronization between distributed nodes.

Responsibilities:

- Designed and implemented modular scheduling system using Quartz Scheduler with Spring Boot.
- Applied Clean Architecture principles to separate business logic from infrastructure.
- Built device monitoring and reporting modules with Redis and PostgreSQL.
- Refactored legacy scheduling logic to support dynamic frequency via RESTful APIs.
- Optimized SQL queries and reporting via JPA Projections and stored procedures.

Technologies: Java 17, Spring Boot, Quartz, PostgreSQL, Redis, Kafka, Docker.

### **Distribution Management System (DMS 4.0)**

Aug 2024 – April 2025 | Team size: 25

Overview: A system managing nationwide product distribution and sales performance tracking for FMCG enterprises.

Responsibilities:

- Developed new RESTful APIs for KPI, POSM, and Product Management modules.
- Optimized reporting performance and data queries to improve processing speed.
- Supported clients in system deployment and provided guidance for operations in real environments.
- Collaborated with BAs to analyze business requirements and enhance API design.
- Created unit tests to ensure system reliability and maintainability.

Technologies: Java 11, Spring Boot, JPA, Hibernate, Microservices, MariaDB, Postman.

### **CRM Vinamilk POS Admin**

Jan 2024 – Jul 2024 | Team size: 15

Overview: Developed and maintained a Customer Relationship Management (CRM) system for Vinamilk distributors, aimed at tracking sales activities, managing customers, and optimizing

business processes.

Responsibilities:

- Refactored legacy monolithic modules into microservice architecture.
- Enhanced API consistency and ensured smooth migration.
- Implemented automated unit testing for system reliability.
- Built standardized source code structure, organizing modules and packages efficiently.
- Used automated system build environments with Docker and CI/CD tools.

Technologies: Java 8, Spring Boot, Oracle, Microservices, Docker, Postman.

## **CRM Vinasoy**

May 2024 – April 2025 | Team size: 20

Overview: Developed and maintained a backend system for enterprise data management, focusing on RESTful APIs, database management, system and reporting optimization, and client deployment support.

Responsibilities:

- Designed and maintained RESTful APIs to support core business functions.
- Managed database schema and optimized query performance using MariaDB.
- Maintained API documentation with Swagger for clarity and ease of use by other teams.
- Supported clients in system deployment and provided operational guidance.
- Optimized system performance and reporting to improve speed and accuracy..

Technologies: Java 11, Spring Boot, Microservices, MyBatis, Kafka, Redis.

## **Distribution Management System — Thiên Long, NutiFood, Vinamilk, Cholimex**

Jul 2022 – Dec 2023 | Team size: 12

Overview: Developed an enterprise management system using Struts 2, covering both front-end and backend, focusing on data integration, business logic processing, and enhancing user experience. The project also emphasized database design, reporting optimization, and system performance.

Responsibilities:

- Participated in full-stack development using Java + Struts2 and HTML/CSS/JS.

- Contributed to database design and optimized queries, reporting, and system performance.
- Designed and implemented business logic and REST APIs.
- Performed bug fixing and continuous improvements to enhance system stability and efficiency..

Technologies: Java 7, Struts2, Oracle, HTML, CSS, JavaScript.