# Nguyen Tan Thanh

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## SUMMARY

Final-year student majoring in Software Engineering at FPT University, Ho Chi Minh City, aiming to become a Java Backend Developer. Completed a 5-month internship at Sendo, involved in designing and implementing backend systems using ASP.NET Core. Solid understanding of building and documenting RESTful APIs with Java Spring Boot and managing databases with PostgreSQL and SQL Server. Experienced in Agile Scrum environments; proficient with tools such as Git, Jira, Postman, and familiar with Dev/Test/Prod environments.Ability to adapt quickly and commit to becoming a professional and responsible Java engineer.

## EDUCATION

**FPT HCM University** Sep 2021 – Dec 2025

- **Major:** Software Engineering
- **GPA:** 3.15/4
- **Coursework:** OOP in Java, Operating Systems, Data Structures, Algorithms, Database System, Database Systems, Hibernate and Spring Framework, Software Architecture and Design, Integrate single page application with Spring Boot, Microservices with Spring Cloud,..

## TECHNICAL SKILLS

**Programming Languages:** Java, C#

**Frameworks/Platforms:** Spring, Spring Boot, Spring MVC, Spring REST, Spring Security, Spring Data JPA, Spring Cloud Gateway, Hibernate

**Databases:** SQL Server, PostgreSQL, MongoDB

**Software Development Tools:** Maven

**IDEAs:** Visual Studio Code, IntelliJ

**Others:** Git, Postman, Docker, RabbitMQ, Redis

## WORK EXPERIENCE

**Backend Developer at SENDO** - Fulltime Aug 2024 – Jan 2025

- Participated in an internship project using C# and the ASP.NET Core framework, focusing on operations and warehouse management systems.
- Developed and documented RESTful APIs using Swagger, ensuring completeness and ease of use for API consumers.
- Ensured project quality by writing Unit Tests to verify individual functionalities.
- Gained experience with tools like DBeaver for working with databases.
- Understood and worked efficiently across different environments: Development, Testing, Staging, and Production.
- Proficient in using Git following standard flow processes and collaborating through Jira project management tool.
- Worked within an Agile Scrum model, actively participating in daily meetings, sprint planning, and sprint reviews.

***Key Project:**

- **Transportation Management System (TMS)**
- Built APIs to manage trip statuses such as closure and completion, and support vehicle coordination between stations.
- Developed a front-end to visually display transportation information and interact with APIs.
- Integrated third-party location services to extract geographic data (province, district) from GPS coordinates.

- Validated flexible travel closure conditions based on the type of travel and destination.

**Stock Activities**

- Built API to process stock transfer orders between warehouses, including creating new transfer requests, confirming transfers, and updating order status through business workflows.
- Retrieved and validated product inventory levels for each item in the transfer order.
- Developed a front-end interface to create, confirm, track, and filter transfer orders by warehouse, status, and time; ensuring seamless interaction with back-end API.

## PROJECTS

**Ecommerce GreenCart** (Feb 2025– Present) - Personal Project github.com/thanhnt-dev/Microservice

**GreenCart Swagger (Demo API):** thanhnt-tech.id.vn/swagger-ui/index.html
**Description:** This is a personal e-commerce platform project built using Microservices Architecture with Java. The system allows users to register accounts, open their own shops, list products, chat in real-time, and manage purchases. Each service is independently developed, containerized, and communicates through REST APIs or asynchronous messaging (RabbitMQ/Kafka).
**Technical:** Java
**Architecture:** Microservices
**Framework:** Spring Boot, Spring Security, Spring JPA, Feign Client, Spring Cloud (Gateway, Config Server, Eureka Discovery)
**Databases:** PostgreSQL, Redis
**Others:** RabbitMQ, Kafka, Swagger, Socket.IO, Docker, ElasticSearch, Kibana and Logstash
**Responsibilities:**

- User registration/login with role-based access control (admin, seller, buyer), including Google OAuth2
- Open and manage personal shops
- List products for sale, search and filter products by category
- Real-time notifications and chat between users and shop owners
- Secure system using Spring Security and JWT authentication between services
- Applied the Saga pattern to coordinate distributed transactions across microservices during the ordering process.
- Implemented Spring Security to ensure application security and user authentication.
- Handle asynchronous communication between services using RabbitMQ to ensure up-to-date data at each service
- Synchronize product data with Elasticsearch for search capabilities and integrate Kibana for log monitoring
- Implement Redis cache to reduce latency and improve performance by storing frequently accessed data across related services.

**Movie ticket booking system** (May 2025– July 2025) - Group Project github.com/thanhnt-dev/Cinema-Project

**Description:** This is an online movie ticketing system that helps users search for movies, book tickets, choose seats, buy popcorn combos, pay online and receive e-tickets by email or QR code. In addition, the system also supports counter staff, manages screening rooms, showtimes, revenue, and assigns user rights according to roles and cinemas.
**Technical:** Java
**Architecture:** Monolithic
**Number of project participants:** 2
**Framework:** Spring Boot, Spring Security, Spring JPA, Spring Validation
**Databases:** PostgreSQL, Redis
**Others:** RabbitMQ, Swagger, Docker, GitHub Actions, Google Cloud
**Responsibilities:**

- Develop the entire backend for the online ticket booking process: choose seats, choose combos, pay and issue e-tickets in the form of QR codes.
- Build a ticket sales process at the counter specifically for staff, support flexible payment and print QR codes.

- Configure Spring Security and JWT to assign user permissions according to roles: customers, staff, managers and administrators.
- Integrate a loyalty and reward system for loyal customers.
- Use Redis to cache seat maps and increase performance in the ticket booking process.
- Integrate Gmail API to send movie tickets with QR codes via email after successful payment.
- Deploy automated systems (CI/CD) via GitHub Actions, Docker and Google Cloud Run.