

Phan Ho Duy Thong

SOFTWARE ENGINEER · JAVA DEVELOPER · FULL-STACK DEVELOPER

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Skills

Back-end Frameworks	Spring Boot, Django
Front-end Frameworks/Libraries	React, Redux, TailwindCSS
Programming Languages	Java, Python, SQL, TypeScript, JavaScript, CSS, HTML
Database	MSSQL, Postgres, Oracle, MongoDB
Others	AWS, Docker, Kubernetes, Pygame, MyBatis, RabbitMQ

Experience

FPT Software - Insurance Domain

Nha Trang, Khanh Hoa, Vietnam

SOFTWARE ENGINEER

Nov. 2024 - Current

- Led the migration of two monolithic applications from **Oracle** to **PostgreSQL**, lowering database licensing and infrastructure costs and enhancing platform efficiency. Work included schema conversion, data migration, performance tuning, and compatibility resolution.
- Engineered secure RESTful APIs with **Spring Boot**, leveraging **JPA** and **MyBatis** for data access, **Spring Security** for role-based access control authorization, and structured logging for reliable backend operations.
- Initiated the implementations of user role & permission handling (recruiter, candidate, back-office) to enforce subscription-based access control.
- Designed and developed a **Java**, **Spring Boot** and **RabbitMQ** microservices consumer for the Fsoft Chatbot platform used by thousands of employees, enabling reliable message processing, workflow automation, and seamless integration with external systems.
- Implemented authentication and authorization for an microservices Identity Provider using **OAuth2/OpenID Connect**, handling JWT tokens, user roles, and secure session management.
- Proactively contributed to project's front-end using **React** to power project's front-end apps.

DXC Technology - Insurance Domain

Ho Chi Minh, Vietnam

SOFTWARE ENGINEER

Feb. 2022 - Sep. 2024

- Contributed to RESTful APIs optimization using **Swagger** and **OpenAPI** for API specification and documentation that simplified front-end integration and reduced development time.
- Developed and maintained a backend service for insurance policy management using **Java** and **Spring Boot**, implementing core business logic, data processing, and API integration.
- Designed and enhanced core business services for agent KPI evaluation, incentive/bonus calculation, and payslip management using **Java**, **Spring Boot** and **SQL Server** with **stored procedures** reducing manual work and ensuring consistent payout accuracy.
- Built and maintained unit tests using **JUnit** and **Mockito**, increasing test coverage and reducing production defects.

Projects

Mixtape - Music Streaming and Songs Recognition Platform

PERSONAL PROJECT

- Designed, constructed, and a music-streaming web app using **Django**, **React**, **TailwindCSS** and **MongoDB**, enabling music sharing and providing an audio recognition (Shazam-like) capability.
- Engineered audio fingerprinting and analysis logic for automated music recognition in **Python**.
- Leveraged **NumPy**, **SciPy**, **PyDub**, and **FFmpeg** for signal processing, feature extraction, and audio preprocessing.

Sokoban Pathfinder Game

PERSONAL PROJECT

- Developed a Sokoban puzzle solver in **Python** with a playable interface built using **Pygame**.
- Implemented search algorithms including **DFS**, **BFS**, **A***, and **Hill Climbing** to compute efficient moves and solve levels.

Healthcare Step-Tracking App

PERSONAL PROJECT

- Developed a cross-platform mobile app using **React Native** to monitor footsteps for health insights.
- Integrated **Micro:bit accelerometer** with the mobile app using **MQTT broker** for real-time sensor data transmission.
- Designed and implemented a **MongoDB** database for secure and efficient storage of user activity data.

Certifications

CERTIFICATIONS

Ongoing **Certified Solution Architect - Associate**, AWS

2025 **7.0 Band Score**, IELTS

2022 **815 Total Score**, TOEIC

PROFESSIONAL DEVELOPMENT

2025 **Learn Tailwind CSS**, Scrimba, Coursera

2025 **Introduction to Artificial Intelligence with Python**, CS50

2024 **Building Web Applications in Django**, University of Michigan, Coursera

2024 **Web Application Technologies and Django**, University of Michigan, Coursera

2024 **Introduction to Programming with Python**, CS50

Education

HCMUT (Ho Chi Minh University of Technology)

Ho Chi Minh, Vietnam

MASTER OF ENGINEERING IN COMPUTER SCIENCE

- Ongoing.
- Degree expected: 2027.

HCMUT (Ho Chi Minh University of Technology)

Ho Chi Minh, Vietnam

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE