Phan Huynh Minh Thinh
Software Engineer

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Summary

Software Engineer focused on **Java Spring Boot**. Committed to writing clean, maintainable code using **SOLID** principles and **Clean Architecture**. Experienced in Fullstack development and eager to build scalable software.

Education

University of Education - HCMUE, B.S. in Information Technology   July 2023 – Present
GPA: **3.2**/4.0

- **Academic Incentive Scholarship**, ranked in the Top 5 students of the entire course   Semester 2, 2024–2025
- **AEON 1% Scholarship** – Academic & extracurricular excellence.   2025-2027

Work Experience

ETECHS - Software Solutions for Education   Oct 2025 – Jan 2026
Software Engineer Intern (Fullstack Developer)

- Developed high-performance web interfaces using **ReactJS** integrated with **Python (Django)** backend.
- Built internal digital transformation tools, focusing on **automation testing** and developing **Backend services** for management systems using Django and ReactJS.

Projects

ThinhPay – Digital Payment Platform   Jan 2026 – Present
A Modular Monolith fintech system simulating core banking operations.

- Architected the system using **Domain-Driven Design (DDD)** and **Hexagonal Architecture** to ensure scalability and maintainability.
- Implemented critical banking logic (transfer, deposit) ensuring **ACID transactions** and data consistency using **Pessimistic Locking**.
- Built secure RESTful APIs with **Spring Boot 3** and **Spring Security (JWT)**, managing Authentication and Authorization (RBAC).
- Optimized performance using **Redis** for caching exchange rates and handling user sessions.

Java E-Commerce Keyboard Platform   Mar 2025 – May 2025
Fullstack e-commerce platform migrated to the Java Spring ecosystem.

- Developed a RESTful backend with **Spring Boot**, applying the **Repository Pattern** and **Spring Data JPA**.
- Implemented secure authentication using **Spring Security** and **JWT**.
- Designed **PostgreSQL** database utilizing **Hibernate** for ORM mapping; reduced boilerplate code with **Lombok** and **MapStruct**.

Research

Knowledge Graph for Scientific Image Annotation in STEM Education   September 2025 - Present

- Researched and applied **Neo4j** for knowledge graph modeling to structure complex educational data.
- Led the design of a web application powered by **Spring Data Neo4j** for efficient graph queries.

Skills

Languages & Certificates: TOEIC 800+ (Listening and Reading)
Programming: Java, C#, JavaScript, TypeScript, Python, SQL
Frameworks & Libraries: Spring Boot, Django, React, Angular, .NET Core

Database: PostgreSQL, SQL Server, Neo4j, Redis, MySQL
Tools & Methods: Git, Docker, Postman, SCRUM, Agile, Microservices