

# KHOI PHAM

FRESHER SOFTWARE ENGINEER

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## Education

### FPT University

BACHELOR'S, SOFTWARE ENGINEERING

Ho Chi Minh, Viet Nam

Oct. 2022 – Apr. 2026

- Major in Java Backend Development.
- Current GPA: 3.2/4.0.

### Le Quy Don High School for the Gifted

HIGH SCHOOL DIPLOMA, SPECIALIZED IN MATHEMATICS

Vung Tau, Viet Nam

2019 – 2022

- Graduated with GPA: 9.2/10.0.

## Work Experience

### FPT SOFTWARE, INTERN SOFTWARE ENGINEER - BACKEND

Ho Chi Minh City, Dec. 2024 – Mar. 2025

- Developed and maintained backend systems using **FastAPI**, focusing on data processing and API development.
- Collaborated with cross-functional teams under **Scrum methodology** to deliver scalable, high-performance solutions.
- Implemented **RESTful APIs** and integrated third-party services for enterprise-level applications.
- Gained hands-on experience with cloud deployment and containerization using **Docker**.
- Tech Stack:** FastAPI, Docker, PostgreSQL

## Projects

### SLIDE AI – GENERATIVE LESSON PLATFORM (5 MEMBERS, JAVA + PYTHON)

Aug 2025 – Nov 2025

- Led the microservice architecture across **Spring Boot** services (auth, content, payment, wallet, mindmap) with **Spring Cloud Gateway + Eureka** as a single entry point enforcing **JWT** routing policies.
- Built the AI slide engine: **FastAPI** RAG pipeline using **LangChain**, **FAISS**, **MongoDB**, **Tesseract OCR**, and **Poppler** to ingest textbooks, detect lessons, and answer grounded queries.
- Implemented **Kafka**-powered workflows (user events, wallet **Saga** holds/releases, payment outbox) ensuring reliable cross-service transactions and wallet/payments reconciliation.
- Delivered a **React + TypeScript** front end with a reusable design system, teacher/student dashboards, curriculum explorer, and slide authoring UI wired to the AI + backend services.

### EDUPATH – EDUCATIONAL PLATFORM (5 MEMBERS, JAVA)

Jun 2024 – Jul 2024

- Built a platform helping high school students explore universities, compare majors, and receive 24/7 career guidance with an **AI-powered chatbot**.
- Developed Real-time Data Visualization for admission scores and exam distributions.
- Integrated multiple data sources with **PostgreSQL** and **MongoDB** for accurate comparison.

### FOOD FORUM – SOCIAL PLATFORM (5 MEMBERS, PYTHON)

May 2024 – Jul 2024

- Developed a community platform for food enthusiasts to share recipes and engage in real-time conversations.
- Implemented a Real-time Messaging System with **FastAPI WebSocket**.
- Built a secure Authentication System with **Firebase**, **JWT** and a responsive UI using **React + TailwindCSS**.

## Skills

- Programming Languages:** Java, Python
- Backend Frameworks:** Spring Boot, FastAPI
- Databases:** PostgreSQL, MySQL, SQL Server, MongoDB
- Cloud & DevOps:** AWS, Firebase, Docker, Kubernetes
- Tools & Platforms:** Git, GitLab, GitHub, VS Code, IntelliJ IDEA, Nginx