

# Pham Van Sy Hoc

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## EDUCATION

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**Sai Gon University**  
*Software Engineering*

2023 - Present  
Current GPA: 2.48/4.0

## SKILLS

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**Languages:** C/C++, Python, Java, JavaScript/TypeScript, HTML/CSS  
**Tools:** Git/GitHub, VS Code, IntelliJ

## PROJECTS

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**RAG System – PDF Document Question Answering** 2026  
*Python, LangChain, FAISS, HuggingFace Transformers, Ollama, Streamlit*

- Developed an intelligent document analysis system using Retrieval-Augmented Generation (RAG) architecture.
- Implemented PDF processing pipeline with text extraction, chunking (1,000 tokens / 100 overlap), and semantic search using FAISS vector database.
- Integrated Ollama LLM (Qwen2.5:7b) with multilingual support for Vietnamese and English question-answering.
- Built an interactive web interface using Streamlit, allowing users to upload documents and query content in real-time.
- **Key Features:** Multilingual NLP processing, context-aware retrieval (k=3 similarity search), temperature-controlled response generation (MPNet 768-dim embeddings).

**Fitness Carrot – Comprehensive Fitness Tracking Platform** 2025  
*Next.js 15, TypeScript, Tailwind CSS, shadcn/ui, Radix UI, Vercel*

**GitHub:** [github.com/Hocpham1102/Comunity-Fitness](https://github.com/Hocpham1102/Comunity-Fitness)

- Developed a modern fitness tracking web application for managing workouts, nutrition plans, and progress analytics.
- Implemented workout logging features including exercises, sets, repetitions, and weight tracking.
- Built a nutrition tracking module to manage meals, macronutrients, and daily calorie targets.
- Designed a responsive user interface using Tailwind CSS and reusable components with shadcn/ui.
- Integrated dashboards with data visualization to monitor workout and fitness progress.
- Optimized application performance using the Next.js App Router architecture.

## EXPERIENCE

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**Software Engineering Student** | *Saigon University* Sept. 2023 – Present

- Studying Software Engineering with focus on software development, algorithms, and system design.
- Completed coursework in Data Structures, Object-Oriented Programming, and Database Systems.
- Developed academic and personal software projects using modern web technologies.

**Personal Software Development** 2024 – Present

- Building full-stack web applications using Next.js, TypeScript, and Tailwind CSS.
- Using Git and GitHub for version control and collaborative development.
- Deploying web applications on Vercel for production environments.

## HOBBIES

- Playing badminton and going to the gym to maintain physical fitness and discipline.
- Reading books about technology, programming, and personal development.

