

# NGUYEN-TU PHAM

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## EDUCATION

**VNUHCM - University of Information Technology**, Vietnam

**October 2022 – Present**

- Bachelor of Degree, Information System
- Courses work: Data Structures and Algorithms, Calculus, Object-Oriented Programming, Competitive Programming, Operating System, Computer Network, Database Management Systems, Web Application Development.

## ACTIVITIES

**WebDev Studio**, member in *development function*

**Oct 2023 – Present**

- Participated in multiple **workshops** and training sessions focused on the latest **web development technologies** and **best practices**

**UIT - ACM/ICPC BootCamp**, member

**November 2022 – Oct 2023**

- Active participant in the UIT ACM/ICPC programming community, focusing on competitive coding challenges and team-based problem-solving exercises.
- Engage in self-study and participate in algorithms competitions to enhance expertise.

## PROJECTS

**OptiMart – Personal Project**

**July 2024 – November 2024**

*Optimart is an e-commerce platform that lets users shop for a diverse range of products online*

- Developed a **high-performance** user interface using **Next.js 14** and **Material UI**, incorporating advanced search functionality using **debounce** to **optimize** server load efficiency.
- Using **i18n** for dynamic content translation and localization across both frontend and backend, with the backend providing API responses in the user's language.
- Using **Spring Boot** and **Spring data JPA** for managing system, with **optimized** application security by implementing **Spring Security**, including JWT-based authentication, permission-based access control.
- **Custom annotations** to simplify and streamline API documentation.
- Implement **Firebase** for **push cloud messaging** to enhance real-time communication
- Leverage **Redis** for caching to optimize data retrieval and enhance response times

**Tech stacks :** Spring boot, Nextjs, JWT, Material UI, PostgreSQL

**Github repository:** *OptiMart Front-end | OptiMart Back-end*

**FoodHub - Group Project**

**March 2024 – May 2024**

*FoodHub is an online food ordering platform that allows users to easily find, order from their favorite restaurants, and have food delivered to their doorstep*

- Using Next.js 14 and DaisyUI to developed user interface, **incorporating advanced** search functionality using **debounce** to **optimize** server load efficiency and enhance user experience.
- Using Spring Boot and Spring data JPA for managing system, with Spring Security for **robust** authentication and authorization with role-based access control reducing unauthorized access attempts by **75%**.

**Tech stacks :** Spring boot, Nextjs, JWT, DaisyUI, TailwindCSS, PostgreSQL

**Github repository:** *FoodHub Front-end | FoodHub Back-end | Overview*

## SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, C/C++.
- **Frameworks/Platforms:** Spring boot, ReactJS, NextJS.
- **Developer tools :** VS Code, Eclipse, IntelliJ.
- **Database:** MySQL, PostgreSQL
- **Tools:** Git, GitHub.

## AWARDS & CERTIFICATES

- Honorable Mention, The 2023 ICPC Vietnam National Programming Contest **Oct 2023**
- Problem Solving ( Intermediate ) - HackerRank **Oct 2023**
- Broze Medal, Ho Chi Minh City Olympiad in Mathematics 2021-2022 **Apr 2022**