

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**