

# Duong Nguyen

 duonguwu |  duongkaiba |  duongnguyen.onrender.com  
 duongnguyen4823@gmail.com |  032 7879 401

## SUMMARY

I'm a third-year Information Systems student at the University of Information Technology - Vietnam National University, HCMC, aiming to become a backend developer. I have strong skills in Python, Java, and PHP, and experience with frameworks like Flask, Spring, and Laravel. Additionally, I have a solid foundation in ReactJS for creating robust server-side applications. I'm also passionate about researching computer vision and artificial intelligence, and integrating these technologies into my project.

## EDUCATION

**University of Information Technology - VNUHCM**  
Bachelor of Information System

**2021 - 2025**  
GPA: 8.24/10

## ACHIEVEMENTS

**Undergraduate Scientific Research 2023**

**Link:** [21521990](#)

## SKILLS

<b>Programming Languages</b>	Python, Java, PHP, JavaScript, C++
<b>Frontend</b>	HTML, CSS, TailwindCSS, ReactJS, ReactNative
<b>Backend</b>	Flask, Laravel, Springboot
<b>Database</b>	MySQL, SQLServer, Oracle, RiakKV, MongoDB Atlas
<b>Computer Vision</b>	YOLOv8, Faster RCNN, ResNET, OpenCV
<b>Devops</b>	Docker, nginx, docker-compose, Microsoft Azure

## PROJECTS

### Neural Parking

04/2024 - 06/2024

*Research Project Leader (3-member)*

*Fullstack Developer - YOLOv8, Flask, Docker*

Neural Parking is an application that utilizes Computer Vision to automate parking management. The system employs YOLOv8, an advanced real-time object detection algorithm, to recognize license plates, count empty parking spots, and detect fire hazards.

#### About project:

- Design, develop, and maintain Flask-based web applications, utilizing Flask-RESTful for constructing RESTful APIs.
- Trained 4 YOLOv8 algorithm models for application development. (plate, ocr, parkinglot, fire/smoke)
- Develop backend features: Login/Register, license plate recognition, detect and count parking lot, automatic payment.
- Develop frontend features: Landing page, Admin Dashboard.
- Deployed a server using Docker, Nginx, and Docker Compose on an Ubuntu VPS.

**Technologies:** Flask, React Native, HTML5, CSS, MongoDB, Docker, nginx, YOLOv8

**Link:** [Website NeuralParking](#) [App mobile CH Play](#)

## Jewelry Detection App

07/2023 - 01/2024

*Research Project Leader (2-member)*

*Fullstack Developer - YOLOv8, Flask, ReactNative*

The application is capable of automatically recognizing and counting jewelry, aiming to save time during end-of-day inventory checks. **About project:**

- Research and evaluate model YOLOv8 to detect Jewelry.
- Labeled collected jewelry dataset and trained a recognition model.
- Design, develop, and maintain Flask-based web applications and mobile, utilizing Flask-RESTful for constructing RESTful APIs.

**Source:** [DetectionAppPNJ Website](#)

**Technologies:** Flask, React Native, MongoDB, YOLOv8

## Job Analysis Website (UEL)

08/03/2024 - 15/03/2024

*Backend Developer (6-member) - Flask*

The website can assess your suitability for your profession through a test, thereby suggesting courses to help you improve and enhance your skills for the job.

**About project:**

- Design, develop, and maintain Flask-based web applications, utilizing Flask-RESTful for constructing RESTful APIs.
- Processing data to provide suitable skills for the job and field of work.
- Processing algorithms using Flask
- The function to suggest courses depending on the field, industry, and job that the user has chosen.

**Link product:** [The Navigator](#)

**Technologies:** Flask, ReactJS

## MATVIET Fashion Eyewear Website

Semester 1 - Year 3

*Fullstack Developer - Team Leader (6-member) - Laravel, ReactJS*

This website allows users to browse and purchase fashionable eyewear. Administrators can manage their products, invoices, and customers efficiently.

**About tasks completed in the project:**

- **Full-stack Development:** This encompasses designing the user interface (UI) and graphics, building the front-end (client-side) application, and developing secure backend APIs with a MySQL database connection.
- **E-commerce Functionality:** user management (registration, login), product display, shopping cart, secure payment gateways (VNPay and Momo integration), invoice generation, and other functionalities.

**Source code:** [Website MATVIET](#)

**Technologies:** Laravel, ReactJS, MySQL, TailwindCSS

## ACTIVITIES

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### Board Member at DucPhoStudentGroup

2021 - Present

Participating in the management and organization of activities and events for students from DPSG - Quang Ngai.

**Achievements:** Outstanding Member for the term 2022 - 2023

## **Junior Proctor at IIG VietNam**

**2021 - 2022**

Facilitating the installation of examination support software for certification exams such as TOEIC, MOS, etc., conducted by the Educational Organization IIG Vietnam, within secondary schools, high schools, colleges, and universities in Ho Chi Minh City. Additionally, participating in the invigilation of computer-based examinations conducted by IIG.