Duong Nguyen

 duonguwu | in duongkaiba | 🌐 duongnguyen.onrender.com
✉ duongnguyen4823@gmail.com | 📱 032 7879 401

SUMMARY

I'm senior 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   **2021 - 2025**
Bachelor of Information System   GPA: 8.24/10

EXPERIENCE

Student Research at Information Systems Lab - UIT - VNUHCM   **2022 - Now**
Achievements: Undergraduate Scientific Research 2023   *Link:* 21521990
IT Helpdesk at IIG Vietnam   **2022 - 2023**

SKILLS

Programming Languages	Python, Java, PHP, JavaScript, C++
Frontend	HTML, CSS, TailwindCSS, ReactJS, ReactNative
Backend	Flask, Laravel, Springboot
Database	MySQL, SQLServer, Oracle, RiakKV, MongoDB Atlas
Computer Vision	YOLOv8, Faster RCNN, ResNET, OpenCV
Devops	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, TailwinCSS

ACTIVITIES

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