

Nguyen Hoang Khang

AI Engineer



khaangnguyeen@gmail.com

0387133745 • Can Tho, Vietnam

Github • Orcid • Google Scholar

Facebook • Apr 2003

PROFILE

After diligently accumulating years of experience as a freelance software engineer from 2017 to 2022, I have been an AI engineer at the Autonomous Vehicle Research Lab at FPT Can Tho University since 2022, where I develop and research lightweight deep learning models. I have also achieved significant research milestones, with multiple publications showcasing improvements and practical applications in various scientific conferences and journals.

PROFESSIONAL EXPERIENCE

AI Engineer

2022 – Present | Cantho, Vietnam

Developing an autonomous vehicle system simulated on Ros2

Freelance .Net programmer

Jul 2023 – Sep 2023 | Can Tho, Vietnam

Tham gia phát triển website FCBEM cùng đội ngũ phát triển của FPT Software theo yêu cầu của FPTU

Chrome Extension Developer

Mar 2023 – Jun 2023 | Can Tho, Vietnam

Phát triển và phát hành công cụ chấm điểm tự động trên chrome store, tiếp cận hơn 1000 người dùng vào tháng 6 năm 2023

LANGUAGES

- English ● ● ● ● ●
- Japanese ● ● ● ● ●
- Vietnamese ● ● ● ● ●

INTERESTS

- Nghiên cứu AI
- Tích hợp hệ thống AI
- Hệ thống Tự động hóa

PUBLICATIONS

An Improved Lane-Keeping Controller for Autonomous Vehicles Leveraging an Integrated CNN-LSTM Approach

International Journal of Advanced Computer Science and Applications
2023

<https://dl.acm.org/doi/abs/10.1145/3591569.3591589>

Traffic Lights Detection and Recognition Method using Deep Learning with Improved YOLOv5 for Autonomous Vehicle in ROS2

Proceedings of the 2023 8th International Conference on Intelligent Information Technology
24 Feb 2023

<https://doi.org/10.1145/3591569.3591589>

Lane Road Segmentation Based on Improved UNet Architecture for Autonomous Driving

International Journal of Advanced Computer Science and Applications
2023

<https://dx.doi.org/10.14569/IJACSA.2023.0140724>

Optimizing YOLO Performance for Traffic Light Detection and End-to-End Steering Control for Autonomous Vehicles in Gazebo-ROS2

International Journal of Advanced Computer Science and Applications
2023

<https://dx.doi.org/10.14569/IJACSA.2023.0140752>

Combining Contrast Limited Adaptive Histogram Equalization and Canny's Algorithm for the Problem of Counting Seeds on Rice

Information Systems for Intelligent Systems: Proceedings of ISBM 2022
2023

https://link.springer.com/chapter/10.1007/978-981-19-7447-2_50

Combining Autoencoder and Yolov6 Model for Classification and Disease Detection in Chickens

Proceedings of the 2023 8th International Conference on Intelligent Information Technology
2023

<https://dl.acm.org/doi/abs/10.1145/3591569.3591591>

ADWARDS

Consolation Prize at FPT EDU DIGITAL RACE 2023

First prize for students at the final of the green startup creative talent contest 2022

Top 5 Aura Hackathons organized by FPT Software 2022

CONFERENCE

World Conference on Information Systems for Business Management
2022 | Bangkok, Thailand

Attend the 2023 8th International Conference on Intelligent Information Technology

2023 | Danang, Vietnam

KNOWLEDGE

- Python, Java, C/C++, C#, Javascript, Golang, PHP, HTML/CSS,...
- Ros, Ros2, OpenCV, Tensorflow, Keras, Numpy, Pytorch, Flask, Django, Asyncio, Scikit-learn, Matplotlib, .Net7, MongoDB, SQL Server, Nodejs, Reactjs, ...

EDUCATION

Software Engineering

FPT University

Sep 2021 – Apr 2025 | Can Tho, Vietnam