Nguyen Hoang Khang

AI Engineer



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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.



AI engineer

2022 – Present | Cantho, Vietnam Developing an autonomous vehicle system simulated on Ros2

Freelance .Net programmer

Jul 2023 – Sep 2023 | Cantho, Vietnam
Participate in developing FCBEM
website with FPT Software's
development team according to FPTU's
requirements

Chrome Extension Developer

Mar 2023 – Jun 2023 | Cantho, Vietnam Develop and release automatic scoring tool on chrome store, reaching more than 1000 users by June 2023

B LANGUAGES

English

Japanese

Vietnamese



♂ INTERESTS

- AI Research
- AI System Integration
- Automation System

I■ 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

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

@ AWARDS

Consolation prize at FPT EDU DIGITAL RACE 2023

Top 5 Aura Hackathons organized by FPT Sotfware 2022



CONFERENCE

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

Attend the 2023 8th International Conference on Intelligent Information Technology

2023 | Da Nang, Vietnam

(P)

吟 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, ...

ℰ EDUCATION

Software Engineering

FPT University

Sep 2021 – Apr 2025 | Can Tho, Vietnam