Nguyen Hoang Khang

Software Engineering

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Github • Orcid • Google Scholar

Facebook • Apr 2003

🪪 PROFILE

I have extensive experience as a freelance software engineer from 2017 to 2022. Currently, I specialize in developing lightweight deep learning models for autonomous vehicles at the Autonomous Vehicle Research Laboratory, FPT Can Tho University. I have achieved notable research milestones with multiple publications and presentations at conferences and scientific 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
   Participate in developing FCBEM website with FPT Software's development team according to FPTU's requirements

Chrome Extension Developer ⧉
Mar 2023 – Jun 2023 | Can Tho, Vietnam
   Develop and release automatic scoring tool on chrome store, reaching more than 1000 users by June 2023.

🌐 LANGUAGES

English	●●●○○
Japanese	●●●○○
Vietnamese	●●●●○

🎸 INTERESTS

- AI research
- AI system integration
- Automation System

📖 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 atthe final of the green startup creative talent contest 2022 ⧉

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 | 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 | Vietnam