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khanghv2406@gmail.com

https://vkev.github.io/Portfolio

Ho Chi Minh City, Vietnam

Education

FPT University

Bachelor of Software Engineering

2022 - 2026

GPA: 3.3/4.0

Skills

- Python, SQL, C#, TypeScript, Java.
- PyTorch, PyTorch Lightning, Hugging Face, Transformers, TensorFlow.
- OpenCV, Albumentations, image preprocessing & augmentation pipelines
- Git, Docker, Linux, REST APIs, SSH.

Research Interests

- Flow Matching, Diffusion, Latent generative models.
- Transformer, Mamba, SSM-based.
- Generative, Anomaly, classification

Language

English: Intermediate

HUYNH VUONG KHANG

AI Engineer | Deep Learning Researcher

Profile

I am a Software Engineer with a passion for Machine Learning, Deep Learning, and Game Development. I love built generative AI model like Diffusion, Flow Matchings, or recently MeanFlow. Creative is the best.

Work Experience

May 2024 - Jan 2026

AIC laboratory

Deep Learning Researcher

Conducted research in computer vision, focusing on image classification, anomaly detection, spiking neural networks, and biometric identification pipelines.

Research Papers

Mar 2025 - Jun 2025

SSPS 2025 (Accepted, First Author)

7th International Symposium on Signal Processing Systems

Title: Enhance an Efficient Contactless Palm Print Recognition System Tailored for University Environment.

Contributions: Design Mamba-based models, implemented ROI-LAnet for palm print recognition task. Train end-to-end with data augmentation using Albumentation for robust to realistic environments, also proposed a background removal module inspired by DepthAnythingV2.

Source Code: https://github.com/VKev/Palm-Print-Identification-System

Jul 2025 - Oct 2025

FETC 2025 (Accepted, First Author)

1st FPT International Conference on Emerging Trends in Computing

Title: Real-Time Contactless Palm Print Identification System for Uncontrolled and Uncooperative Environments.

Contributions: Designed a hybrid Transformer–CNN model and an ROI extraction module for real-time palmprint identification. Trained end-to-end using Albumentations augmentation. Optimized inference latency while maintaining reliable performance.

Source Code: https://github.com/VKev/Real-Time-Contactless-Palm-Print-Identification-System

Jul 2025 - Oct 2025

FETC 2025 (Accepted, Co-Author)

1st FPT International Conference on Emerging Trends in Computing

Title: Unlocking the Potential of Spike-based Transformer Architecture: Investigating Spiking Neural Models for Classification Task.

Contributions: Proposed and evaluated alternative neuron models to improve efficiency: IF Hard Reset and IF Soft Reset (removing leak dynamics). Train Spikeformer and executed systematic experiments on CIFAR-10 and CIFAR-10. Analyzed results and technical explanation.

Souce Code: https://github.com/mintii13/Investigating-Spiking-Neural-Models

Certificates Coursera

- Project Management Principles and Practices
- User Experience Research and Design
- Software Development Lifecycle
- CertNexus Certified Ethical Emerging Technologist
- Object Oriented Programming in Java
- Computer Communications