Nguyen Phan

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Education

2017–2021 **University of Information Technology - Vietnam National University, Ho Chi Minh City, Vietnam**,
Honors Bachelor in Computer Science, Major Computer Vision, Bachelor of Science.
GPA – 8.6/10

Experience

Sep 2023– **Data Scientist**, ZALO.
Ongoing Researching, training, and deploying advanced technology for a short video recommendation system.
- Responsibilities: Items retrieval, data processing, model training and deployment.

May **Applied Scientist**, VINBRAIN.
2021–Aug Developing technology for smart city - smart home applications, and medical field.
2023
- Key Projects: Medical image registration, Chest X-Ray for Tuberculosis prediction, vehicle-related applications, and person re-identification.

March **AI Engineer**, EMAGE DEVELOPMENT.
2021–May Developing models for defect classification and character recognition.
2021
- Applying Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs) for data augmentation.

Publications

2023 **"Nighttime scene understanding with label transfer scene parser"** ,
Image and Vision Computing (IVC) 2024.

2023 **"LoGoViT: Local-Global Vision Transformer for Object Re-identification" (First Author)**,
ICASSP 2023.

2023 **"Abstraction-Perception Preserving Cartoon Face Synthesis"**,
Multimedia Tools and Applications (MTA) 2023 .

2022 **"Improving Local Features with Relevant Spatial Information by Vision Transformer for Crowd Counting"**,
BMVC2022.

2022 **"Adaptive Proxy Anchor Loss for Deep Metric Learning" (Equal Contribution)**,
ICIP 2022.

2022 **"Adaptive Multi-Vehicle Motion Counting"**,
Signal, Image and Video Processing (SIVP) 2022.

2021 **"ViMQ: A Vietnamese Medical Question Dataset for Healthcare Dialogue System Development"**,
ICONIP 2021.

Projects

Sept 2023 – **Short Video Recommendation System**.
Ongoing
- Researching and implementing models for a high-usage application.

Nov 2022 – **Liver Tumor Registration**.
Aug 2023
- Researching deformable registration for medical images.

Sept 2022 – **Chest X-Ray Image prediction for Tuberculosis**.
Feb 2023
- Developing state-of-the-art metric learning approaches and an interactive web app for predictions.

Feb 2022 – Jan 2023 **Person Re-Identification for multi-camera tracking**.
- Researching and implementing models to achieve state-of-the-art performance on public benchmarks.

Jan 2022 – March 2022 **Masked face classification**.
- Developing classification models and optimizing hyperparameters.

May 2021 – Dec 2021 **Lost Found - Missing Items**.
- Implementing metric learning models and achieving state-of-the-art performance.

Mar 2021– May 2021 **Chip Defect Detection**.
- Developing classification and detection models using GANs.

Jun 2020 – Feb 2021 **Thesis: Semantic image segmentation in the dark with domain adaptation method**.
- Achieving state-of-the-art performance in nighttime segmentation using GANs.

Skills

Programming Languages	Python, C/C++, SQL, Pyspark
Frameworks	PyTorch, Keras
Utilities	Linux/Windows, Anaconda, Git, Sublime Text, VScode, Jupyter Notebook
English Proficiency	6.5 IELTS (all bands above 6.0)

Achievements and Awards

2023 **Oral presentation at ICASSP2023 at Rhodes, Greece**.

2020 **Ho Chi Minh City AI Challenge** .
- Rank 5 in preliminary and rank 6 in the final round of the Ho Chi Minh City AI Challenge.

2017–2021 **University of Information Technology**.
- Received multiple scholarships including Honor Student Scholarships (7 times) and Encouragement Scholarships (4 times).

Extra Curriculars

2018 – 2021 **Executive Member**,
MultiMedia Laboratory-University of Information Technology.
Specialized in research and deep learning, particularly GANs.

Oct 2019 – Mar 2020 **Teaching Assistant**,
HasBrain.
Taught Python programming and applied machine learning to e-commerce.