

VO HIEP THANH

 HiepThanh510 |  vohiepthanh |  vohiepthanh510@gmail.com |  +84 854.278.171

SUMMARY

Passionate about AI and possessing a natural aptitude for quick learning, I aim to contribute my skills and knowledge as an AI Engineer. **With over 1 year of experience in researching and addressing issues in the fields of Computer Vision and Natural Language Processing**, I am enthusiastic about creating advanced machine-learning solutions and applying theoretical expertise to tackle practical issues. My commitment to working hard will help the organization reach its targets and achieve success.

EDUCATION

Ho Chi Minh City University of Technology

B.Eng. in Automatic Control


GPA: 8.33/10.0

Aug 2019 - July 2023 

Ho Chi Minh City 

Luong Van Chanh High School for the Gifted

Specialization in Physics


2016 - 2019 

Phu Yen Province 

WORK EXPERIENCE

Machine Learning Engineer

Delta Cognition - Hybrid

Dec 2023 - Present 

NLP Researcher Collaborator

VietAI - Remote

Oct 2023 - Present 

- Focusing on researching Large Language Models (LLM) currently.

AI Researcher

AI VietNam - Remote

Sep 2022 - May 2023 

Ho Chi Minh City 

- Mainly tackling computer vision and natural language processing problems.
- Focusing on researching skills and diving into Machine Learning/Deep Learning theory to be able to build neural networks from scratch and fine-tune models.

Embedded Linux Intern

Viettel High Tech - On-site

Jun 2022 - Aug 2022 

Ho Chi Minh City 

- Responsibility: building systems for BeagleBone Black, BeagleBone Green Wireless boards using tools from the Yocto Project.
- Technical Skills: Python, C/C++, Linux operating system.

PROJECTS

Pure Decoders For Image Captioning

- [Source Code](#)
- Utilizing a pretrained VGG16 model as an encoder to extract features from images.
- Building RNN/LSTM/Transformer decoder from scratch.
- Technical Skills: Pytorch, Python, Linux operating system.

Text Generation Using Different Decoding Methods With Transfromers

- [Source Code](#)
- Used two different decoding methods, greedy search and beam search, to generate text using Trans-formers.
- Applied the "no-repeat-n-grams" option in the project to prevent the repetition of n-grams.
- Technical Skills: Pytorch, Python, Linux operating system.

Positioning solution for Automated Guided Vehicle using QR Code

[Ho Chi Minh City University of Technology](#)

- [Source Code](#)
- Developed an autonomous guided vehicle (AGV) system that utilizes advanced control and computer vision technologies for QR code navigation.
- Designed and integrated hardware components such as a TP-Link wifi modem, Raspberry Pi 4, STM32F407 microcontroller, and Rapoo camera.
- Algorithm: PID, Optical-Flow, Trajectory Planning (trapezoidal velocity).
- Technical Skills: C/C++, Python, OpenCV, Linux operating system.
- [Video Demo](#)





Lung Nodule Segmentation Using ResUnet++

- [Source Code](#)
- Research and implement papers:
 - [ResUNet++: An Advanced Architecture for Medical Image Segmentation](#)
 - [Dual Attention Network for Scene Segmentation](#)
- Technical Skills: Pytorch, Python, Linux operating system.

SKILLS

Programming Language	Python, C/C++
Database Management System	MySQL, MongoDB
ML/DL Libraries/Frameworks	Open-CV, Pytorch, TensorFlow/Keras, Sci-kit Learn, Numpy, Pandas, Scipy, Matplotlib
ML/DL knowledge/skills	Statistics, ML/DL Algorithms, Data preparation for ML model, Model Development
Soft Skills	Research, Teamwork, Problem Solving, Critical Thinking

AWARDS & ACHIEVEMENTS

The Excellence Scholarships	2019-2023 
Top 3% GPA of the major and excellent training points	
Odon Vallet Scholarships	2018 & 2019 
Viet Nam National Physics Olympiad (VPHO)	Jan 2019 
<i>2nd prize of the National Excellent Student in Physics, organized by the Ministry of Education Training, Vietnam.</i>	
Traditional Olympiad For Southern Provinces	Mar 2017 & Mar 2018 
Gold medal of the Southern Olympiad 30/4 in Physics, organized by the Department of Education Train-ing, Ho Chi Minh city, Vietnam	

CERTIFICATES

TOEIC 760, IIG Viet Nam

Jun 2022 - Jun 2024

EXTRA COURSES

Deep Learning Specialization

Jun 2023 

Taught by Andrew Ng.


Certificate: [Deep Learning Specialization](#)

Deep Learning for Computer Vision

July 2023 - August 2023 

Taught by Prof. Fei-Fei Li at Stanford University [CS231N](#).

Natural Language Processing with Deep Learning

Sep 2023 - Oct 2023 

Taught by Prof. Chris Manning at Stanford University [CS224N](#)

REFERENCES

VINH HAO NGUYEN, Ph.D

Head of Department of Control Engineering and Automation

Faculty of Electrical and Electronics Engineering

Ho Chi Minh City University of Technology

Address: 268 Ly Thuong Kiet St., Dist. 10, HCM City, Vietnam

Tel: (+84)938275130

Email: vinhhao@@hcmut.edu.vn