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Yen Thai

Computer Scientist

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Dedicated computer science student with a strong academic background and a keen interest in emerging technologies seeking to broaden my knowledge and gain hands-on experience. Eager to immerse myself in challenging projects that will enhance my problem-solving abilities and prepare me for a successful career as a MSc in Computer Science within the next four years.

Education

Ho Chi Minh city University of Education (HCMUE) Oct 2021 - Jul 2025

Bachelor of Information Technology
Major: Computer Science
GPA: 3.4

Skills

Programming Languages	Python (*Pytorch, TensorFlow, Keras*), C/C++, C#, R, MSSQL
Hard skills	AI, Machine Learning, Deep Learning (*Algorithms and applications*) Computer Vision (*Detection, Segmentation, Object Tracking*) Time Series Analysis and Forecasting (*Biosensors Signal*) Natural Language Processing (*Text Mining, Text Classification*) IoT (*Raspberry Pi, STM32*) Data Analysis and Visualization (*Power BI*)
Soft skills	Leadership, Teamwork, Time Management, Problem-solving
Communication	Vietnamese, English

Technical Experience

IMPACT TECHNICAL RESOURCES (ITR VN) Nov 2024 - Present

Fresher AI Engineer | Reseacher
Developing AI solutions for MedTech applications.

- Biosensors signal processing
- Research potential solutions
- Deploy the AI model to Mobile devices & microchip

DETECTION OF ABNORMAL BEHAVIOR IN CHICKENS Sep 2024 - Jan 2025

Graduation Thesis: Principal Researcher
Detection of dead and heat-stressed chickens based on the combination of Deep Learning and Optical Flow.

- Collecting, processing, and labeling data
- Designing algorithms and training models
- Evaluating results and writing reports

CHICKEN FARM WARNING SYSTEM May 2024 - Jun 2024

AI Engineer
This is a pre-feasibility study project for a warning system for Ba Huân chicken farms.

- Processing and labelling Thermal image and video data
- Design and training Deep Learning models to detect dead-laying hens
- Evaluating experimental results

SMART GLASSES TO SUPPORT READING FOR VISUALLY IMPAIRED STUDENTS Jun 2023 - May 2024

Research team leader

This study focuses on the technologies of Document Analysis and Recognition (DAR) and IoT deployment.

- Researching and improving deep learning models for DAR tasks
- Exploring automatic annotation technologies for non-textual components
- Deploying algorithms on Raspberry Pi

DETECTING AND IDENTIFYING VIOLENT BEHAVIOR Jul 2022 - May 2023

Researcher

This research falls within the field of Computer Vision and primarily focuses on Deep Learning models for this problem.

- Extracting and processing human skeleton features from image and video data
- Designing and training Deep Learning models

Publications

The Model To Automatically Detect Dead Laying Hens And The Deployment In The Farm Accepted

*Viet, N. Q., **Yen, T.**, Son, T., & Phap. H.*

The 16th IEEE International Conference on Knowledge and Systems Engineering (KSE 2024)

Building a Document Reading Assistant for the Visually Impaired

***Yen, T.**, Ha, N., Tran, V., Vy, H., Nhi, T., & Viet, N.*

Ho Chi Minh city University of Education Journal of Science (HCMUE J. Sci.). Vol. 21, No. 9 (2024)

Real-Time Detection of School Violence using Machine Learning and Human Skeleton Tracking

*Trong, N., Phi, T., **Yen, T.**, Phung, T., Tai, L., Hau, L., & Nha T.*

International Journal of Advanced Engineering (IJAE). Vol. 06, No. 01 (2023)

Awards

- **Best Paper Award** Nov 2024

  KSE 2024 Conference

  Awarded for presenting an innovative approach to detecting dead-laying hens in crowded poultry farming environments using Deep Learning and Computer Vision techniques.
- **Consolation Prize** May 2024

  Scientific Research for Students, Faculty of IT, HCMUE

  Developed a solution to facilitate document reading for the visually impaired, leveraging Document Analysis and Recognition technologies.
- **Consolation Prize and Second Prize** May - Jun 2023

  Scientific Research for Students, HCMUE & Faculty of IT

  Recognized for developing a Deep Learning-based system designed to detect violent behaviors in video data, awarded both the Consolation Prize at HCMUE and the Second Prize at the Faculty of IT for this innovative project.
- **Encourage Academic Scholarship** Semester 1, 2022 - 2023

  Faculty of IT, HCMUE

  Ranked among the Top 10 Students for outstanding academic performance in the cohort.