

# Tran Minh Nhat

Homepage: <https://nhatVNU.github.io>

Email: [tranminhnhat20022002@gmail.com](mailto:tranminhnhat20022002@gmail.com)

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<b>EDUCATION</b>	<b>Ho Chi Minh city University of Technology (HCMUT), Vietnam</b> (Sep 2020–now) Bachelor of Engineering in Electrical and Electronics Engineering GPA: 8.2/10.0 (The Honor program of Telecommunications Engineering)
<b>ACADEMIC PROJECTS</b>	<b>Image Forgery Classification and Segmentation: A Unified Deep-Learning Approach</b> (2021) <ul style="list-style-type: none"><li>• <b>Role:</b> Leader of a team with two members.</li><li>• <b>Description:</b> We proposed a unified deep-learning network which can perform classification and segmentation simultaneously. Besides, we also derived a loss function for overcoming data imbalance.</li><li>• <b>Result:</b> In comparison, there are two tasks. The proposed method surpasses recent methods (up to 2018) for 3/5 public datasets on task1, and 5/5 public datasets on task2.</li></ul> <b>Image Forgery Detection using Deep Learning</b> (Jun 2021 – Nov 2021) <a href="https://github.com/thuyngh/Image-Forgery-using-Deep-Learning">https://github.com/thuyngh/Image-Forgery-using-Deep-Learning</a> <ul style="list-style-type: none"><li>• <b>Role:</b> Leader of a team with 3 members.</li><li>• <b>Description:</b> This was a research contract with HCMUT. My team had researched on Deep Learning techniques applied for Image Forgery Detection problem.</li><li>• <b>Result:</b> Our model can detect forged images with high accuracy of 95.1%.</li></ul> <b>Face Attendance Checking System</b> (Sep 2021 – Feb 2022) <ul style="list-style-type: none"><li>• <b>Role:</b> Member of a team with 3 members.</li><li>• <b>Description:</b> My team had designed an Attendance Checking application using face to distinguish individuals.</li><li>• <b>Result:</b> The algorithm can be run realtime on popular laptops (in CPU mode). It is also accurate at 96.5%.</li></ul>
<b>HONORS</b>	<b>Honor Class</b> (Sep 2021) Be elected to the Honor Class of Electronics & Telecommunications, Ho Chi Minh city University of Technology. <b>City Excellent Student</b> (Mar 2018) Second prize of the Excellent Student in Chemistry, organized by the Department of Education Training, Soc Trang city, Vietnam.

## EXTRA COURSES

### **Machine Learning**

(Jan 2022-Mar 2022)

Taught by Prof. Andrew Ng on [Coursera](#)

Final grade: 98.43%

### **Convolutional Neural Networks for Visual Recognition**

(Feb 2021 – Dec 2021)

Taught by Prof. Fei-Fei Li on Stanford University [CS231n](#).

Passed as a public online course

### **MOOC HarvardX CS50**

(Nov 2021 - Mar 2022)

Taught by David J. Malan on Harvard University, [CS50](#).

Passed as a public online course

### **Optimization and Applications**

(Feb 2019 – Jun 2019)

Taught by Assoc. Prof. Dr. Kha Ha-Hoang <https://sites.google.com/site/hahoangkha> as a preemption master course at Ho Chi Minh city University of Technology, Vietnam.

Passed with final grade 9.1/10.0

## TECHNICAL SKILLS

**Language:** Python, Matlab, C++, Embedded C and Assembly

**Framework:** PyTorch, TensorFlow, Keras, NodeJS

**General:** Embedded System, Signal Processing, Computer Vision and Machine Learning