



# Nguyễn Tấn Khang

Student at University of Information Technology - VNUHCM

I'm a Computer Science student, currently studying machine learning/deep learning, especially computer vision. I have a deep passion for programming as well as a change-ready mindset to learn new technologies.

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## SKILLS

### Web development

HTML, CSS, Flask

### Database

SQL (MySQL)

NoSQL (MongoDB)

### DevOps

Docker

### Languages

English (IELTS 6.5)

### Frameworks & Libraries

Tensorflow, Pytorch, OpenCV,  
Sklearn, Selenium, Streamlit,  
PySpark, Kafka

### Others

Ubuntu

## EDUCATION

2021 - Present <> Current GPA: 8.49/10

### BACHELOR'S DEGREE | COMPUTER SCIENCE

University of Information Technology - VNUHCM

## EXPERIENCE

2021 - Present

### Member of The Executive Committee - Communist Youth Union of Computer Science Faculty

Organizing Committee:

- Trainee Program - a program training for freshman of UIT.
- Wecode Challenge - a coding challenge for freshman of UIT in Wecode online judge.
- UCPC - an ICPC-like competitive programming contest by the Computer Science Faculty.

## PROJECTS

### License Plate Recognition

A system to read data from license plate images/videos.

- Team size: 3
- Role: Leader, Researcher
- Models experimented: YOLOv8, WPOD-NET
- Tools used: Google Colab, Roboflow

# ACHIEVEMENTS

**UIT Academic Encouragement  
Scholarship**  
3rd Semester

# CERTIFICATIONS

**Problem Solving Using  
Computational Thinking**  
University of Michigan

## Vietnamese Handwritten OCR

Partaking in Kalapa ByteBattles 2023, we build models to recognize text from Vietnamese handwritten images.

- Team size: 3
- Role: Leader, Researcher
- Models experimented: CRNN, AttentionOCR (VietOCR)
- Tools used: Google Colab, Kaggle, TextImageGenerator

## Image-based Pneumonia Detection

Building models for predicting whether pneumonia or normal via X-ray images.

- Team size: 3
- Role: Leader, Researcher
- Models experimented: VGG19, SVM, kNN, Naive Bayes, Random Forest, EfficientNetB2
- Tools used: Google Colab, Kaggle, Gradio

## DGA-based Botnets and DNS

## Homographs Detection through Integrated Deep Learning

Re-implementing proposed models from scientific paper.

- Team size: 3
- Role: Leader, Researcher
- Models experimented: S-CNN, S-LSTM, S-GRU, S-B-LSTM, S-B-GRU, LSTM, GRU, CNN, CNN-LSTM, B-LSTM, B-GRU
- Tools used: Google Colab, Kaggle