

# Nguyen Huynh Cong Duong

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## ROLES INTEREST

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AI/ Backend/ Data Engineer

## EDUCATION

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**University of Information Technology**

Computer Science - Honor Program

GPA: 8.03/10.00

**Vietnam National University Ho Chi Minh city**

Graduated in September 2019

## KEY SKILLS

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Python (AI dev)  
Git

Golang (Backend dev)  
Machine Learning

Vue (Frontend dev)  
Deep Learning

SQL (postgresql)  
Problem solving

## PUBLICATIONS

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- Co-author of scientific paper "Emotion Recognition for Vietnamese Social Media Text" accepted by Pacling International Conference 2019.  
Link: <https://arxiv.org/pdf/1911.09339.pdf>

## EXPERIENCES

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### Personal Project

November 2019 - Present

#### PRIVATE PROJECT

- Researching and implementing the MQTT (MQ Telemetry Transport) protocol - using Python.
- Researching data modeling and designing relational database for project - using PostgreSQL.
- Researching and designing REST API - using Swagger tool.
- Developing API as backend - using Golang.
- Developing UI/UX website as frontend - using Vue.

### UIT - Thesis

January 2019 - July 2019

#### EMOTION RECOGNITION FOR VIETNAMESE COMMENTS ON SOCIAL MEDIA PROJECT UTILIZING DEEP LEARNING ALGORITHMS

- Crawling, pre-processing, building guideline, annotating and evaluating corpus.
- Researching word embedding: tf-idf, word2vec, fastText.
- Implementing SVM, CNN models for this matter.
- Developing a chatbot demo on Messenger platform.
- Submitting a paper to Pacling international conference 2019.

### FPT software - Intern

May 2019 – July 2019

#### IMAGE CLASSIFICATION FOR 32 TRAFFIC SIGNS

- Implementing CNN model for this problem.
- Researching pre-trained model VGG and ResNet.

#### IMAGE SEGMENTATION FOR ASL SIGN LANGUAGE

- Annotating data (pixel annotation).
- Researching and comparing UNet and FCN model.
- Researching and implementing model evaluate for this task (IoU).

#### **UIT - Course Project**

2018

SPELL CHECKING USING MODEL LANGUAGE COMBINE VITERBI

- Crawling corpus.
- Implementing Minimum Edit Distance algorithm to find error word.
- Combining model language and viterbi to correct spelling mistakes.

## **AWARDS AND ACHIEVEMENTS**

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- Annual talented scholarship - UIT (2015-2019).
- Top 10 - John Von Neumann Institute data science Hackathon (2019).
- Student of 5 merits certification - UIT (2017 - 2018).
- Rank 31 - ACM (Asia Hanoi Vietnam national programming contest - 2018).