



# HUỖNH VIỆT CƯỜNG

AI ENGINEER



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Male



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Feb 01, 1998



154/7 Hồ Bá Kiệ, Quận 10, thành phố Hồ Chí Minh

## Education

**Major: Computer engineering**

Oct 2016 - Aug 2020

**The University of Technology and Education at Ho Chi Minh City**

GPA: 7.3/10

## Work experience

**Researcher**

Jul 2020 - Feb 2022

**HCMUTE-AI Lab**

Research and report paper, new model architecture and synthetic lessons for students

**Outsource AI engineer**

August 2020 - August 2021

**VIETMAP**

Developed the detection traffic sign system.

**AI Talent**

September 2021 - Feb 2022

**FPT Software AICamp**

Research deep into text summarization, handwriting and text generation for Vietnamese

**AI engineer**

Feb 2022 - March 2023

**FPT AI Center**

Worked as a team leader to develop solutions related to OCR problems: Vietnamese Handwriting Recognition, OCR Passport Reader, Document Reader, ect.

**PO**

March 2023 - Now

**Vietmap / MapBU**

- \_ Research to develop Vietmap Chatbot to answer customers question.
- \_ Develop a solution to apply NLP for address searching and support elastic search.
- \_ Responsible for planning and construction of an application related to salesman tracking and planning.

## Projects

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1. Paper in GTSD 2020 conference: A Lightweight Model For Real-Time Traffic Sign Recognition (accepted)
2. Autonomous Car Projects: Self-driving car ROS node in a simulated and real environment:
  - Description: I worked with several algorithms to detect traffic signs from traditional methods to deep learning methods.
  - Tech stack: Python, Pytorch, Robot Operating System (ROS), Jetson TX2, Mobilenet, SSD
3. Object detection:
  - Description: I worked on several projects like breast cancer detection, traffic signs detection
  - Tech stack: Python, Pytorch, Yolov5, Model compression
4. Machine Learning:
  - Description: I deploy an web-app to support student to learn Machine Learning and Deep Learning. This app will guide student basically analyze data, choose fit parameters and evaluate the result.
  - Tech stack: Python, Sklearn, Streamlit, Pytorch, Pandas
5. Vietnamese Text Generation:
  - Description: I work with GAN and Diffusion to generate Vietnamese. End of this project to push performance of OCR models.
  - Tech stack: Python, Pytorch, tf2, Transformer.
6. Text Summarization (TS):
  - Description: I proposed a multi-task model for extractive and abstractive task in TS based on BertSum.
  - Tech stack: Python, BertSum, ViBert
7. General OCR system
  - Description: I build an OCR system with a strong advantage in keeping high accuracy without requiring further real data, even in written text.
  - Tech stack: Transformer, Paddle, CTPN, CRAFT, LayoutParser,....
8. Document Reader
  - Description: I plan to deploy a platform serve user to extract the information in their document quickly.
  - Tech stack: Layoutlm, NER, OCR, Image Processing
9. Texas US license plate recognition
  - Description: I join to build an API for an assistant system with recognizing license plate in Texas State
  - Tech stack: YOLO, OCR, Information Extraction tech
10. Salesman Tracking and Planning Application
  - Tech stack: ASP.NET, TSP, Entity Framework, Postgress

## Honors & Awards

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| 2019-2020 | First prize in the qualifying round at "Digital Racing" Contest organized by FPT.               |
| 2019-2020 | Second prize for "Digital Racing" Contest organized by FPT for all students in Vietnam.         |
| 2019-2020 | Consolation prize for the contest "HCM AI-Challenge 2020" in track 1 for vehicle tracking       |
| 2020-2021 | First Prize Challenge 3: "Learning Activities with Ohmni Robot" in KO Hackathon II 2021 contest |