

# TRAN TRUNG TRUC

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Experience with machine learning, deep learning and applications about Computer Vision, NLP, Speech. Quickly learned new skills and applied them to daily tasks, improving efficiency and productivity. I like write blog share knowledge , experience about AI and participate in discussion about new development in AI techniques.

## EXPERIENCE

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### FPT Software

AI Engineer 09/2020–Current

- Implement project Computer Vision, Nature Language Processing.
- Generate data use GAN, Variational AutoEncoders ,..
- Read, understand code AkaOCR to improve, update
- Get involved seminar reinforcement learning, optimizers, transformer for picture process.

### FSERVING

Intern AI Engineer 03/2020–05/2020

- Implement virtual dressing room: remove background, detect pose, body measurements calculator
- Study openCV, algorithm machine learning
- Approach Computer Vision

### DAC Viet Nam

Developer Python 01/2020–03/2020

- Implement web by framework FLASK
- Familiar environment linux, install CUDA
- Build app by Flutter
- Implement web, app recognition skin diseases

## EDUCATION

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DA Nang University 2016–2020

*Major: Information Technology*

## PROJECTS

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### Recognition error of battery

Build model object detection recognition error ( foreign objects, bent, cracked, deformation ) of battery:

- Gather data use : GAN, augmentation
- Build model one-shot-learning
- Train model, test
- Visualize results

### Application product reviews on Lazada, Tiki based on comments

Use model BERT to sentiments analysis based on comments of customers:

- Crawl comment in Lazada, Tiki used BeautifulSoup, Selenium.
- Processing data use regular expression (regex).
- Train model , predict results use pretrain model BERT.

Github : [https://github.com/trungtruc123/Review\\_Product\\_Lazada](https://github.com/trungtruc123/Review_Product_Lazada)

Blog :

<https://viblo.asia/p/su-dung-ai-danh-gia-san-pham-tren-lazadatiki-dua-tren-comment-aWj53b9ol6m>

### Application web wrote poetry

Use model GPT-2 to generator poetry (6-8) Viet Nam :

- Crawl data poetry ( Truyen Kieu, But Tre, thivien.net,...) from internet sources using Selenium
- Processing data use regex
- Tokenize data use pretrain model PhoBERT
- Fine-tuning model GPT-2
- Implement web demo by framework FLASK

Github : <https://github.com/trungtruc123/Poemtry>

Blog : <https://viblo.asia/p/su-dung-ai-tri-tue-nhan-tao-sang-tac-tho-luc-bat-YW0Zrj3RZQ0>

### Application chatbot assistant covid-19 in facebook of hackathon contest

Build chatbot assistant covid-19 support updating news on the number of infected people in the world, how to prevent and hotlines,...

Github : [https://github.com/trungtruc123/message\\_bot\\_fb](https://github.com/trungtruc123/message_bot_fb)

Youtube : <https://www.youtube.com/watch?v=0guSjRHEMK4>

### Application web optical character recognition vietnamese (handwritten)

Implement web recognition handwritten vietnamese address

Github : [https://github.com/trungtruc123/OCR\\_FLASK](https://github.com/trungtruc123/OCR_FLASK)

## Marker detection of parking car

Build model keypoint detection of parking car:

- Apply machine learning, albumentations generate 30k images
- Build DataLoader, custom model MSPN
- Train model, test
- Visualize results

## Zalo object detection challenge contest

Build model object detection : RestinaNet, EfficientDet for traffic signs : rank 56

## SKILLS

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- **Vision** : Object detection, key-point detection, anomaly detection ...
- **NLP** : Sentiment Analysis , BERT, GPT-2, ...
- **Data Structure , Database** : MongoDB, MySQL
- **Language** : Python, C, C++, Java, JavaScript
- **Deployment**: Docker, API (Flask, Django)
- **Framework**: Pytorch, Tensorflow

## SCHOLARSHIPS AND AWARDS

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| University scholarship for talented program students | 2017–2018 |
| University scholarship for talented program students | 2018–2019 |

## INTERESTS

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- Write blog share knowledge , experience about AI.
- Participate in discussion about new development in AI techniques
- Build desire projects