

DO HUU THIEU

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CARRIER OBJECTIVE

Looking for a position to utilize my skills and abilities and achieve professional growth while being resourceful, creative and flexible. With 2 years of experience working in the industry and academia, I am ready to devote all my time and effort to the job.

TECHNICAL SKILLS

OS	Linux
Programming Languages	Python, C++
Data Crawling	Selenium, BS4
Data Engineering	ELK, Airflow, SQL, NoSQL
Deep Learning frameworks	Tensorflow, Keras, PyTorch
Experiment Tracking	MLFlow, WandB
DevOps	Docker
Versioning	Git, DVC

WORK EXPERIENCE

Emage AI Pte. Ltd. 2019 - 2020
AI Engineer

- Working with Deep Learning models for training image data in order to predict defects on image surfaces of semiconductor or chip.
- Semiconductor, chip image data analysis and processing.
- Implementing OCR projects: Building model to detect and classify characters. Applying image processing algorithms and deep learning models to recognize and detect defects on images.
- Experiencing with some Deep Learning models such as Mask RCNN, SSD (modified), YOLOv3, YOLOv4, MobileNet.
- **Tech stacks:** OpenCV, Scikit-learn, Tensorflow, Pytorch, Matplotlib

Cerebro Research Lab 2020
AI Researcher

- Building and deploying model to extract information from identity cards.
- Researching VAEs model to reconstruct faces from fingerprints
- Fashion AI project: Researching GAN model to generative 2D try on clothes images. Reaching MS-SSIM score of 0.944.
- **Tech stacks:** OpenCV, Tensorflow, TorchServe

FPT Telecom 2020 - 2021
ML Engineer

- Implementing OMR project: Building image processing algorithm to support automatic exam marking for multiple choice test.
- Researching into face identification pipeline: Using machine learning to cluster and remove abnormal data. Using face alignment to preprocess images. Evaluating some factors which affected on Face representation models.
- Building similarity model for image retrieving: Supervising employees in industry area.
- Developing infrastructure and model for cloud camera.
- **Tech stacks:** FastAI, Flask, gRPC, Docker, TensorFlow Serving, RabbitMQ

PingPush AI Technology

2021-now

ML Engineer

- Developing and evaluating object detection for fire and person.
- Developing and evaluating motion detection model.
- Evaluating and deploying face recognition model.
- Building ML systems for edge AI camera and server services.
- Creating API for ML services.
- **Tech stacks:** FastAPI, Docker, Triton Serving, TensorRT, DeepStream, ELK, PostgreSQL

VietAI

2020 - now

Teaching Assistant

- Responsible for class tutorials & assignments as well as answering questions from students.

PROJECTS

Hand-Written Detection and Automatically Saving Test Scores

- Using image filtering algorithms and SURF to get proposal area and extract feature from image, respectively.
- Implementing CNN model to recognize hand-written digit.

Landmark Identification

- Data are extracted from ZaloAI Landmark detection challenge 2018.
- Using ResNet50 for transfer learning.
- Applying data augmentation, cross-validation method to prevent overfitting.
- Reaching the accuracy of 96.26%.

Sentiment Analysis

- Data from Foody reviews.
- Using Word2Vec for embedding words.
- Implementing model with LSTM and attention layers to classify sentiment.
- Reaching F1-score of 94.148%.

Vietnamese Weather Forecast

- Crawling Vietnamese weather data from websites.
- Visualizing the historical weather data.
- Building statistic model to predict weather status.
- Building dashboard for weather information.
- **Tech stacks:** Streamlit, Selenium, BS4, Plotly, Seaborn, statsmodel

Kaggle: Google AI4Code

- Learn-to-rank.
- Implementing model with CodeBERT and DistilBERT.
- Reaching jaccard-score of 0.853.

Bachelor Thesis Project: Deep Learning Based Goods Managements in Supermarkets

- Using Image Processing algorithms to pre-processing image (filtering, normalizing, scaling).
- Employing Tiny-YOLOv3 algorithm to detect target object and text area real-time.
- Training CNN model from SHVN dataset to recognize text from text area.
- Experimental results with 92.81% mAP for object detection and 92.28% accuracy for digit recognition.
- **Thesis score:** 9.42/10

PUBLICATIONS

2020 9th International Conference on Software and Computing Technologies

2020

Deep Learning Based Goods Managements in Supermarkets

EDUCATION

VNUHCM-University of Science 2022 - 2023
Computer Science

Bach Khoa University 2015 - 2019
Department of Control and Automation (Electrical and Electronics)

- **GPA: 7.95/10**

- Building background knowledge in Machine Learning, Deep Learning and Image Processing algorithms.

Quang Trung Specialized and Gifted High School 2012 - 2015
Math Class.

- Building logical and creative thinking about Mathematics.

VietAI Foundation Class 2019
Machine Learning and Deep Learning class

- **Certificate:** Statement of accomplishment with Distinction. Having top-1 scores of class assignments.

- Studying overall knowledge about Machine Learning algorithms and framework techniques.

- Building some Kaggle projects of NLP and Computer Vision with Tensorflow and Keras.

HONORS & AWARDS

TOEIC certificate 660 points (issuer: IIG Vietnam) 2019

Second Prize in The 5th Delta Advanced Automation Contest 2018

Second Prize in the Math Provincial Level Contest for High School Students 2015

Silver medal in Olympic 30-4 Math Contest 2014

ADDITIONAL COURSES

Machine Learning (Coursera)

Deep Learning Specialization (Coursera)