

THE KHOI NGUYEN

AI Engineer

Ho Chi Minh City, Viet Nam

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Education

FPT University

Bachelor of Artificial Intelligence, GPA 8.91

- 100% tuition fee scholarship.

Sep. 2020 – December 2023

Ho Chi Minh, Viet Nam

Experience

Gradients Technologies

AI Engineer Intern

- Researched and fine-tuned Transformer models in NLP: machine translation.
- Implemented bucket processing in Tensorflow training.

Sep. 2022 – January 2023

Ho Chi Minh, Viet Nam

NanoDyne Pte. Ltd.

AI Programming Engineer

- Model: researched and integrated TFLite object detection models for Android application.
- Built TURN/STUN server on Google Cloud VM, assisted in the development of an Android application using Kotlin.

Nov. 2023 – January 2024

Remote

TPS Software Corporation

AI Developer

- Automated License Plate Recognition: Streamlined vehicle identification processes with a YOLO model capable of detecting and recognizing Vietnamese license plates.
- Furniture Floor Plan Analysis: Developed YOLO and SAM models to accurately recognize, count, and segment 2D furniture in floor plans.
- Big Data Engineer: Leveraged Databricks, SQL, and PySpark to develop and maintain robust data pipelines, transforming data into actionable business insights.

Mar. 2022 – Present

Ho Chi Minh, Viet Nam

Projects

Few-shot Object Detection Model | *YOLO-World, YOLOv8, few-shot object detection*

- Enhanced zero-shot object detection with a few-shot learning module.

Jul. 2024 – Present

Object Detection Model For Everyone | *model distillation, YOLOv8, Detic*

- A model that is part of an Android app system that produce object detection model based on user's preference with 3-5 images as input from user.
- Model: utilize zero-shot object detection model Detic to label external data from the Internet.
- Build dataset and train YOLO model from Detic-labeled images.

Feb. 2024 – June 2024

Object Recognition and Counting | *Python, Roboflow, YOLO, Pytorch*

- Project management: Leader, applied Scrum framework.
- Dataset: Collected, annotated, and augmented.
- Algorithm: Researched about ByteTrack, BoT-SORT on counting objects.
- Algorithm: Experimented small-object-detection algorithm: SAHI.
- Model: Finetuned YOLOv5 models.
- Document: using Latex language to write reports.

Sep. 2023 – December 2023

Slide Generation using ChatGPT | *Python, ChatGPT*

- A product generates a PowerPoint presentation file (ppt) by taking a brief sentence and the desired number of slides as input. The resulting presentation includes content and images that align with the given description.

August 2023

Vietnamese Receipt Information Extraction | *Python, Opencv*

- Image Processing: Detected edges, cropped and warped perspective the receipt in an image.
- Python Development: Developed a data labeling app using Python Tkinter.

March 2023

Relevant Courseworks and Certificates - Coursera

- Big Data
- Natural Language Processing
- Deep Learning
- Digital Image Processing
- Google Project Management
- Google Data Analytics

Skills

English: Academic IELTS, overall 7.0 (issued Dec. 2019)

Programming languages: Python, SQL, Java, Kotlin, C, Latex.

Version Control Tools: Github, Gitlab, Azure DevOps.

Technologies/Frameworks - AI: Tensorflow, Pytorch, Azure Custom Vision, Roboflow, Ultalytics, Scikit-Learn

Technologies/Frameworks - Data: Azure Databricks, Azure Board, SSMS, Google Cloud.

Extracurricular

TEDx FPTU HCMC 2021

Event Organizer Collaborator

- Greeted attendees.
- Set up the revenue and prepared the tea break.

Spring 2021

Ho Chi Minh, Viet Nam