

Bang Vo

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An aspiring AI Engineer with a background in Artificial Intelligence, Machine Learning, and Computer Vision. A fast learner, highly adaptable, and dedicated to producing good quality service.

EDUCATION	Master's Degree in Computer Science, University of Science, HCMC	01/2022 - present
	<ul style="list-style-type: none">GPA: 3.7/4Thesis: Video summarization using an unsupervised model	
	Bachelor's Degree in Computer Science, University of Science, HCMC	09/2014 - 09/2018
	<ul style="list-style-type: none">GPA: 3/4Thesis: Food recognition using Transfer Learning	
	VietAI Machine Learning/ Deep Learning certificate.	11/2018 - 01/2019

WORK EXPERIENCE (Full time)	Sr. AI Engineer, Silicon Prime, HCM City	03/2024 - Present
	<ul style="list-style-type: none">Construct a pipeline to create a virtual customer assistant to help the disabled get Social Security Disability Insurance (OpenAI API, Azure AI, RAG, Prompt Engineering, Function call).	
	Sr. AI Engineer, Kobiton Inc., HCM City	02/2021 - 04/2023
	<ul style="list-style-type: none">Construct a pipeline based on Mask-RCNN from Detectron2 to detect UI elements in mobile applications (semantic segmentation).Build a model to detect target elements from overlapping UI elements on a user touchpoint (box classification).Implement a panorama stitching algorithm using OpenCV to stitch multiple overlapping UI screens (image stitching).Implement template matching using OpenCV to match UI elements (template matching).	
	Jr. AI Engineer, Tiki Corporation, HCM City	03/2019 - 02/2021
	<ul style="list-style-type: none">Construct a logo recognition pipeline based on Yolov3 for the logo localization step and ResNet for the logo classification step to detect OEM/non-OEM products to help validate millions of sellers' products (logo recognition).Construct an end-to-end system based on Tesseract and image preprocessing using OpenCV to extract the business registration code from the business registration certificate and check a seller's legality (BRC recognition).Develop an API based on the ResNet model to detect NSFW images and verify all photos uploaded on Tiki (NSFW recognition).	
	Jr. Data Scientist, NAIplus Company, HCM City	10/2018 - 02/2019
	<ul style="list-style-type: none">Engineer solutions to preprocess Vietnamese text, including diacritics restoration.Experiment with various NLP techniques and technologies (QA system, CRFs, HMM, NER, word segmentation, sentiment analysis).	

- Use DrQA to train and test on a QA dataset and create a basic chatbot using wit.ai.

**WORK
EXPERIENCE
(Freelance)**

Sr. AI Engineer, Designveloper, HCM City

3/2024 -
8/2024

- Construct a Vision Grid Transformer (VGT) multi-modal model based on text and image to detect signature fields on documents (PDFs) (**document layout analysis, document AI**).
- Construct a pipeline to summarize documents (**OpenAI API**).

Sr. AI Engineer, Skin Detective, HCM City

10/2022 -
10/2023

- Engineer a pipeline based on ResNet to classify skin diseases and visualize skin lesions (**image classification, explainable AI**).

Sr. AI Engineer, Kudofoto, HCM City

07/2022 -
07/2023

- Engineer a pipeline to retrieve runner's images based on BIB code (**human detection, face detection, text detection, text recognition**).

PROJECT

- Implement multi-task learning (metric learning + classification tasks) for **fashion retrieval** on the street2shop+custom dataset crawled from e-commerce platforms.
- My personal development environment (**PDE**): <https://github.com/bavo96/bavovim>

**TECHNICAL
SKILL**

- Main programming language: Python.
- Deep Learning Framework: Pytorch, Tensorflow, Keras, Detectron2, MMDetection, LangChain, LlamaIndex.
- DevOps: Docker, Tensorflow Serving, MLFlow, Prometheus, Grafana.
- LLM API: OpenAI, AzureAI, Perplexity.
- Database: MongoDB, MySQL, Redis, Qdrant.
- Cloud Platform: Google Cloud, AWS, Azure.

**HONORS
AND
AWARDS**

- First place in the shared task of Reliable Intelligence Identification on Vietnamese Social Network Sites of the VLSP 2020 competition (Team's prize).
- Level 3 scholarship of the VietAI ML/ DL course 2018.
- Departmental scholarships (2016 – 2017, 2017 – 2018).