Bang Vo

Phone: (+84) 33 2696839 - **Email:** bavo.imp@gmail.com - **Portfolio**: bavo96.github.io

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
	• *GPA*: 3.7/4	
	• *Thesis*: Video summarization using an unsupervised model	
	Bachelor's Degree in Computer Science, University of Science, HCMC	09/2014 - 09/2018
	• *GPA*: 3/4	
	• *Thesis*: 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
	• 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
	• 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
	• 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
	• 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** • 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**).	3/2024 - 8/2024
	Sr. AI Engineer, Skin Detective, HCM City • Engineer a pipeline based on ResNet to classify skin diseases and visualize skin lesions (**image classification, explainable AI**).	10/2022 - 10/2023
	Sr. AI Engineer, Kudofoto, HCM City • Engineer a pipeline to retrieve runner's images based on BIB code (**human detection, face detection, text detection, text recognition**).	07/2022 - 07/2023

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).