Vu Quoc Thai Binh

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SUMMARY

AI-focused Computer Science graduate student with a strong foundation in Computer Vision, NLP, and Deep Learning. Skilled in Python, C++, and Bash. Possesses experience in DevOps and data engineering practices to bridge the gap between model development and deployment. Seeks a Machine Learning Engineer position to apply knowledge and contribute to innovative AI solutions across various industries.

EDUCATION

- **University of Information Technology** Ho Chi Minh city
  Bachelor of Computer Science; GPA: 7.91/10

SKILLS

- **Languages**: Python, C, C++, Bash, HTML/CSS/Javascript
- **Frameworks and Libraries**: PyTorch,TensorFlow and Keras, OpenCV, PaddleOCR, NumPy, scikit-learn, Matplotlib, PySpark, Flask
- **Tools and Technologies**: MySQL, Kafka, Spark
- **MLOps**: MLflow, Kubeflow, Docker, Kubernetes, CI/CD pipelines, Model versioning, Model monitoring

PROJECTS

- **Automatic License Plate Recognition ALPR**
  - ALPR system designed to identify various vehicles and their corresponding license plates
  - Using YOLOv8 to detect vehicles, WPOD-NET to detect license plate and PaddleOCR to extract data from the license plates
  - **Technologies**: YOLOv8, WPOD-NET, PaddleOCR, Pytorch, OpenCV
  - Code Repository
- **Food ingredients detection**
  - Developed a computer vision system using YOLOv8 to identify and classify 13 common food ingredients
  - Re-trained a YOLOv8 object detection model for the specific task of identifying and classifying 13 food ingredients
  - **Technologies**: YOLOv8, OpenCV, Flask, Pytorch
  - Code Repository
- **Face Swap**
  - Using various of methods to replace a person's face in an image or video with another person's face
    - dlib (68 landmarks, basic algorithm)
    - dlib (81 landmarks, Delaunay triangulation)
    - MediaPipe (Delaunay triangulation)
    - MediaPipe + OpenGL (Delaunay triangulation)
  - **Technologies**: OpenCV, Mediapipe, Dlib, OpenGL, numpy
  - Code Repository
- **SmartSight**
  - Leverages machine learning to analyze your movements through a camera, creating a personalized smart home experience that automatically adjusts lighting, temperature, and more based on your activities (reading, working, sleeping)
  - **Technologies**: YOLOv8, Pytorch, OpenCV

CERTIFICATIONS

- IELTS:6.0
- IBM DevOps and Software Engineering *(coursera)*
- DeepLearning.AI Machine Learning Engineering for Production (MLOps) Specialization *(coursera)*
- MOS WORD
- MOS EXCEL

WORK EXPERIENCE

Cashier Feb 2022 - Mar 2024
CGV *HCM*