KIEN TRAN TRUNG

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OBJECTIVE

Seeking for the position of AI Engineer to utilize knowledge and experience. Coming with understanding of AI, Machine learning, Deep Learning and ability to work in profession environment.

Short-term goal: Be admitted to company to develop my skills.

Long-term goals: Become a AI Engineer and long stay with the company to contribute a part of my values.

EXPERIENCE

TMA Innovation -> 09/2021 – present

HO CHI MINH CITY /// AI ENGINEER

Work on Computer Vision

Main responsibilities:

- Research new architectures and algorithms and implement them for AI Vision problems
- Optimize the model to get the best performance (Pruning, Quantization)
- Build full pipeline for multi-camera using NVIDIA Toolkit (TensorRT, Deepstream, Triton, TAO) and Intel Toolkit (OpenVINO, Intel DL Streamer).
- Deploy AI Service using REST API, RabbitMQ, Docker.
- Config S3 cloud for storing objects (S3 Amazon, MinIO)
- Apply license & encryption for security using pyarmor.

SKILLS AND TECHNIQUES

Python for Data Science

- Can use Numpy, Pandas, Matplotlib, and sci-kit learn for Data Visualization.
- Can write RESTful API with Python

Machine Learning

Have knowledge about:

- Supervised Learning (Logistic Regression, KNN, NBN, SVM)
- Unsupervised learning (K-means)

Deep Learning

- Image Processing for Computer Vision (image comparison, image noise filtering, image enhancement)
- Can use frameworks: Keras API, Pytorch, and Tensorflow.
- Have applied this knowledge in problems: Classification, Detection, Recognition, Time series, OCR
- Mathematics for Machine Learning: Statistics, Linear Algebra.

Deployment: Deployed AI projects on Server, Edge device

- Have experience working on AI Toolkits (NVIDIA Toolkit, Intel Toolkit)
- Configure and integrate other services.
- Can use docker.

Other skills: Willing to learn non-AI skills

Using:

- SQL: Design DB (multi-database, multi-tenant)
- Programming languages: C/C++ (understand), C#, Java

Language

- Vietnamese: Mother tongue
- English: intermediate, strong technical reading, listening skills, and fundamental communication.

EDUCATION

HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY AND EDUCATION -> 2018 – 2022

SOFTWARE TECHNOLOGY

Overral GPA: 3.3/4

HONORS & AWARDS

- Scholarship in 1nd semester 2018-2019 and Good standing from 2018 to present
- Ranked 5th in the city level hackathon competition

INTERESTS

- Research on AI
- Coffee Roasting
- Playing soccer
- Motorbike
- Reading Foreign Literature

WORKED PROJECTS

Vehicle Counting

Main responsibility:

- End-to-end research, development, and deployment of the project

Technique:

- Yolov5 for vehicle detection, PaddleOCR for OCR digit on vehicle
- Deepstream for multi-camera (12 cameras)
- Docker for deploy, pyarmor for security

Face Age Gender

Main responsibility:

- Develop logic counting by male and female
- Optimize inference speed
- Deploy on multi-camera

Technique:

- NVIDIA Toolkit
- Python Flask

People Counting

Detail: counting line, warning zone, heatmap

Main responsibility

- Training model with large data (80k images)
- Compare, and improve model performance
- Develop a full pipeline for multi-camera, send API for other services
- Optimization model for GPU (workstation), Edge device (Jetson Nano, Xavier)

Technique:

- Yolov5, Yolov7
- TensorRT, Deepstream, OpenVino, DL Streamer
- Docker, RabbitMQ

Vehicle Speed Estimation

Main responsibility:

- Research, and develop flow for demo

Technique:

- Yolov7 + Deepsort
- Speed estimation: perspective project to transform the image space to real space (Ransac Algorithm)

Health Monitor Device OCR

Detail: extract information from the screen of the health monitor (blood pressure, glucose pressure, temperature device)

Main responsibility:

- Improve accuracy for model
- Develop flow API for mobile
- Configure with cloud to store data

Technique:

- Yolov7, Paddle Direction, Paddle Detection, Paddle OCR
- Flask API, RabitMQ, MinIO Cloud.

Health Test Form OCR

Main responsibility:

- Design flow and develop demo version

Technique:

- Using PaddleOCR for Table Recognition

Tax OCR

Detail: extract the hand-written badge ID of employee from the tax list

Main responsibility:

- Develop a mini tool to support my company (complete time: 1.5 days)

Technique:

- PaddleOCR, Image processing, Google API

VN Business License OCR

Main responsibility:

- Develop mini tool for extracting business license in paper image.

Technique:

- PaddleOCR

CERTIFICATIONS

Learning some online courses:

NVIDIA Deep Learning Institute:

- Deepstream for video analytics on jetson nano.

Coursera:

- Mathematics for Machine Learning: Multivariate
- Data visualization with python
- Machine Learning, Deep Learning Specialization - Andrew Ng

Udemy :

- PyTorch for Deep Learning and Computer Vision

Machine Learning of FPT FUNiX.