

DANG HUYNH TRUNG TIN

Data Engineer

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Ho Chi Minh City, Viet Nam

TinDang

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"I just believed what things I understood. If not, make it clear."

As a Data Engineering, I am not just preparing data to make the report. I know how to make a story from data, solving the problems of the business base on collected data. So, I help business owners listen to their stories, and make consult with the best operators.

EXPERIENCE

Data Engineer / Senior Data Engineer

Vietmoney Corp

Mar 2021 – Present | Full-time | Ho Chi Minh City, Vietnam

Viet Money is committed to providing fast and convenient financial solutions in the online trading environment. Now, getting a loan in cash is never easier than when you only connect to the internet to sign up to us, cash will be served right at home.

- Designed, built, and optimized data flow (ETL) effectively to business requirements.
- Built, and designed a backend software project by the C4 model.
- Build a data analytics platform for analysts, data engineers, and scientists to uncover hidden patterns, correlations, and valuable business insights to improve strategic business.
- Designed and built **Asset Graph** containing **20000+ nodes** and **1m edges** implement **NetworkX**, **MongoDB**, **Redis** that representation of model attributes and posts. That makes a result finding all posts of the model in **0.5s**. The project target to represent features of similar products in the same brand or model.
- Built data pipeline on cloud based on **Google BigQuery**, **Google Cloud Storage**, **Google Dataproc**, and **Google Dataflow**, combine with data integration **Airbyte**, task scheduled by **Apache Airflow**.
- Prepare data for ML models and ad-hoc data requests of stakeholders by utilizing a range of technologies. Training and applying ML methods to improve business decisions.
- Distributed Crawling System**: built and improve crawling system to collect data from second-hand E-commerce several websites with gain **2x performance** reach **1000+ pages/hour**, and built Admin page to manage services.
- Maintained and rebuilt **Anomaly Second-hand E-commerce price detection API service** improves **20% accuracy F1 score**.
- Built an **Extract entities API service** trained in self-collected Vietnamese Second-hand E-commerce datasets, reach to **96% F1 score**.
- Maintained and built **Forecasting price of Second-hand E-commerce API service** handling **10000+ models**, and improved accuracy by **15%** at the better price to appraise the property.
- Clustering Second-hand E-commerce post by the description** for ranking similar posts.

EDUCATION

High-Quality Bachelor's in Computer Science

Ton Duc Thang University

2015–2019

HCMC

- College graduation ratings: Very good

CERTIFICATES

AWS Machine Learning Foundations

Udacity

August 2022

Data Analytics A-Z with Python

Yaswanth Sai Palaghat

Dec 2020

Machine Learning A-Z™: Hands-On Python & R In Data Science

Kirill Eremenko, Hadelin de Ponteves, Ligeny I Team, SuperDataScience Support, Ligeny Team

Dec 2020

Computer Vision with Python

Code Warriors, Kaustubh Tripathi

May 2022

Agile Software Development with Scrum

Axon Active Vietnam Company.

2017

HCMC

LANGUAGES

English



- Built web application for **Business Management Dashboards**, **Partner Analysis Dashboards**, **Second-Hand Product Trending Price**, etc. that availability for departments can access to view.

Mentor

Mindx Technology School

📅 May 2023 – Present | Part-time 📍 Ho Chi Minh City, Vietnam

As a Data Analysis mentor, I guide and support individuals interested in pursuing a career in data analysis. This involves sharing personal career experiences, inspiring and encouraging mentees, and providing a roadmap to success. In addition to sharing experience, the author also helps mentees develop the necessary technical skills to become successful data analysts, including teaching them how to explore data insights and use them to inform decision-making. Emotional support is also a critical aspect of mentoring, providing a supportive environment where mentees can discuss challenges and receive guidance and encouragement.

Visiting Lecturer

Ton Duc Thang University

📅 Feb 2022 – Jul 2022 | Contract 📍 Ho Chi Minh City, Vietnam

As a visiting lecturer, I have taught students in TDTU how practicing to apply design patterns that are proven solutions to a common problem in the development project process. Another side, students have discussed tech life and coding experiences, etc.

Data Scientist

Dai Phat Solutions Co., Ltd

📅 Aug 2019 – Mar 2021 | Full-time 📍 Ho Chi Minh City, Vietnam

Dai Phat Solutions is a unit operating in the field of Information Technology, providing Operational Management solutions for all types of businesses from standard to specialized.

- Research, design and maintain AI/ML projects as services.
- Make PoC apply **Object tracking** to improve security area by CCTV
- Optimizing process video and image with FFMPEG Library for Computer Vision real-time inference.
- Designed & Built **Security Camera AI** based on distributed system design for scale-up, fault-tolerant, reliability, and availability. It can process and stream video frames to monitor web pages at **15 fps/s per camera** for **Human detection**, **Object tracking**, and **Face Recognition**. That is available to process multiple cameras. **Face Recognition has accuracy at 92% - face space of up to 1000+**.
- Maintained and built **Face Recognition Project** became checking employees in large industries with optimizing infrastructure.

SKILLS

Research Self Learning
 Problem-solving Critical thinking
 Scrum Agiles Development JIRA
 Responsibility Analytical Team work
 System Design Data Storytelling

Data Tools & Big Data & Scripts

Python Java Golang Shell SQL
 PySpark Pandas Polar Hadoop
 Pytorch TensorFlow Numpy
 PyArrow Sklearn Data Brick
 DuckDB Parquet HDFS
 Google BigQuery DeltaLake Airbyte
 InfluxDB Apache Airflow Streamlit
 Apache Kafka Google Pub/Sub Plotly
 Google Cloud Storage DataProc
 DataFlow

Deployments & Platforms

Linux MacOS Docker
 Docker Compose Kubernetes Helm
 Google Cloud Platform PowerBI Git
 Github

Web Development & Databases

Python FastAPI RESTFulAPI
 Flask Django ElasticSearch Redis
 TigerGraph MongoDB gRPC
 Postgres MySQL

Technical & Tools

Object-oriented programming
 Google Cloud Storage Postman
 Swagger Machine Learning
 Computer Vision OpenCV
 MapReduce Search Engine FAISS
 Big Data Google Cloud Platform
 NoSQL NLP Selenium Scrapy
 PyCharm VSCode ...

PROJECTS

Forecasting secondhand product price service – Vietmoney Corp

Developer

Forecasting secondhand e-commerce price service that help business operators make decisions to control inventory.
Python, SKLearn, Pytorch, Bert, Prophet, Faiss...

Applied DL/ML For Anomaly Sale Detection – Vietmoney Corp

Developer

Multiple projects stacking to process anomaly sale articles for improving the performance of appraisal service.
Python, SKLearn, Pytorch, Bert...

Named Entity Recognition for Vietnamese Secondhand E-commerce – Vietmoney Corp

Developer

Applying Named-Entity Recognize model for Vietnamese second-hand trade news.
Python, Pytorch, Bert...

Face Anti Spoofing – Vietmoney Corp.

Developer

<https://github.com/vietmoney/face-anti-spoofing>

Pure Python - Face detection & anti-spoofing. Support Web API & Command-line interface.
Python, Pytorch, FastAPI, python-click, ...

Distributed Crawling System – Vietmoney Corp.

Developer

<https://gambaru.io/en/blog/distributed-crawling-system-la-gi>

Crawling E-commerce product data from variate web sources by a distributed system.
Python, Scrapy, Splash, Google PubSub, Google Cloud Services, JMESpath, FastAPI, Mongo, Kubernetes, Pydantic,...

CameraAI – Dai Phat Solutions

Data Scientist & Project Architect

<https://dps.com.vn/san-pham.htm/products/doanhnghiep>

The project has been implementing state-of-the-art models to improve CCTV security levels in the industry. It can make an alert when any abnormal activity in the security zone. The project's features are human detection, face recognition (recognizing strangers and employees), human activity, and tracking multi-human locations. Also, it can be adapted to large-scale, distributed, and high computing power. It's built fit with business logic.

Python, Pytorch, RetinaFace, InsightFace, Apache Kafka, Redis, Numpy, OpenCV, Dlib, Docker, Faiss, FFmpeg, PostgreSQL, ZMQ, Blosc, TurboJPEG, Socket.io

Face Recognition – Tin Dang

Project Owner

https://github.com/TinDang97/face_recognition

The project is a simple face recognition tool, which combines state-of-the-art Computer Vision Model in Face Detection, Face Embedding.

Python, Pytorch, Numpy, OpenCV, RetinaFace, InsightFace

Real-Time Human Detection CCTV – Tin Dang

Project Owner - "Arctic Code Vault Contributor - by GitHub"

<https://github.com/TinDang97/Real-Time-Human-Detection>

Nowadays, CCTV is used by people at home, in garages, and front stores,... and one of the important features is Motion Detection at night. That improved by detecting humans in the frame in real-time.

Python, YOLOv3, OpenCV

ffmpeg-py - Tin Dang

Project Owner

 <https://github.com/TinDang97/ffmpeg-py>

ffmpeg-py is a native Python interface for FFmpeg and supports data IO handle.

Python, FFmpeg
