Duy Huynh

MACHINE LEARNING ENGINEER · SOFTWARE BACKEND DEVELOPER

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Work Experience

Hung Thinh Corporation

Ho Chi Minh City, Vietnam

Senior Specialist, Applied Artificial Intelligence

Apr 2022 - present

- · Work as a senior research and development specialist at Hung Thinh Innovation (a member of Hung Thinh Corporation); In charge of building awesome features for the next-generation of smart cities.
- Techstack: Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, Ubuntu Linux, Linux tools, Apt, Scripting, Git, Jenkins, Kubernetes, FastAPI, Kafka, Redis,...

TIKI Corporation Ho Chi Minh City, Vietnam

Al Engineer

Dec 2020 - Apr 2022

- · Develop million-scale recommendation algorithms for TIKI using Pattern Mining, Graph Neural Network, Matrix Factorization, and other Representation Learning algorithms. TIKI (tiki.vn) is the leading online retailer in Vietnam, offering a seamless end-to-end retail experience.
- · Work closely with Data Engineer and Backend Engineer to produce high quality and production-ready system. We also run A/B tests to evaluate the performance of the algorithm, as well as deliver rapid prototyping of products with immediate user feedback and business needs.
- Techstack: PyTorch, Kubernetes, Google Cloud BigQuery, Apache Airflow, Pandas, Numpy and other high-performance Python computing

DPS - Dai Phat Solution Ho Chi Minh City, Vietnam

Al Engineer

Dec 2018 - Nov 2020

- · Develop end-to-end Optical Character Recognition solution for Vietnamese with 0.2 CER. Build backend services for face attendance checking
- application base on Face Recognition Algorithm with 98% accuracy. · Implement micro-services architecture with REST-based API to serve real-time AI solutions. Deploy and maintain overall service infrastructure utilizing Docker container, focusing on high-availability, fault tolerance, and auto-scaling.
- Techstack: PyTorch, Docker, FastAPI, SQL and NoSQL database, Apache Kafka, Redis, Pandas, Numpy and other high-performance Python computing libraries.

AI Lab - Ton Duc Thang University

Ho Chi Minh City, Vietnam

Research Internship

Jun 2017 - Dec 2018

- Deep dive into ML/DL theories, especially in Natural Language Processing.
- · Work on document understanding project using modern computer vision technique like Object Recognition and Segmentation.
- Techstack: PyTorch, Jupyter Notebooks, Flask.

Education

Sentivi

Ton Duc Thang University

Ho Chi Minh City, Vietnam

Bachelor of Science in Computer Science

Aug 2017 - Sep 2022

· GPA 3.29, Dean's Honour List

Huynh Man Dat Highschool for the Gifted

Excellent student specializing in Informatics

Kien Giang, Vietnam

Aug 2014 - Aug 2017

Opensource Projects

PyTorch, Scikit-learn, Transformers, FastAPI, Docker

https://github.com/vndee/sentivi

Sep 2020 - Oct 2020

· A simple tool for sentiment analysis which is a wrapper of scikit-learn and PyTorch Transformers models. It is made for easy and faster pipeline to train and evaluate several classification algorithms.

GraphCRDT

https://github.com/vndee/graph-

Dec 2021 - Dec 2021

Python, Docker, FastAPI, WebSockets

Dec 2019 - Feb 2020

 A portable on-memory conflict-free replicated graph database. This is a simple implementation of a conflict-free replicated graph database. The graph operations have been developed based on the Last-Writer-Wins element set. This project comes with a full decentralization fashion which can merge data without any coordination between replicas.

PyTorch, FastAPI, Kafka, Docker, Milvus, Elasticsearch

https://github.com/vndee/visee

• End-to-end visual search service that empowers by state-of-the-art Deep Learning algorithm. It is designed for scale and stability.

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Skills

Python high-effiency computing libraries and related: Pandas, PyTorch, NumPy, Scikit-learn. etc. Computing

FastAPI, Docker, Java, C/C++, Jenkins, Airflow, Kafka, Redis, SQL and NoSQL database, Google Cloud Platform, BigQuery, **Backend**

Kubernetes.

Miscellaneous Linux, Shell (Bash/Zsh), كالمارية Linux, Shell (Bash/Zsh), كالمارية (Overleaf/R Markdown), Git, CI/CD, Quantitative Analysis.

Soft Skills Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation, Technical Writing and Discussion.

Achievements

Finalist/Honor Prize, National Informatics Competition for Youth Binh Dinh 2016 **Silver Medalist**, 30/4 Olympiad for Gifted High School Student (South and Central Vietnam) Ho Chi Minh City Bronze Medalist, Costal and Northern Olympiad for Gifted High School Student Thai Nguyen

2016-2017 Province's Representative, First-round of National Team Selection Competition in Informatics

Kien Giang

Competitive Programming

Codeforces Candidates Master, Rating 2065 (top 4%): https://codeforces.com/profile/hdi 2015-2017 Hackrrank Algorithm Specialist, Rating 2268.76 (top 1%): https://hackerrank.com/watagogo

Publications

ICMLANT'21

An Pha Le, Tran Vu Pham, Thanh-Van Le, **Duy V. Huynh**, Dat Ngo. Robust Hierarchical Model For Joint Span Detection And NICS'22 Aspect-based Sentiment Analysis in Vietnamese. In Proceeding of NAFOSTED Conference on Information and Computer Science

(NICS), 2022.

An Pha Le, Tran Vu Pham, Thanh-Van Le and Duy V. Huynh. Neural Transfer Learning For Vietnamese Sentiment Analysis Using Pre-trained Contextual Language Models. In Proceeding of IEEE International Conference on Machine Learning and Applied

Network Technologies (ICMLANT), 2021

Hien T. Nguyen, **Duy V. Huynh**, Hieu D. Ngoc and Nam Thoai. Visualizing Vietnam's Scientific Research Projects Based on **KSE'20** Pre-trained Language Models and UMAP. In Proceeding of Knowledge and Systems Engineering Conference, 2020.

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