

# Duy Huynh

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## EXPERIENCE

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### AI Engineer

*TIKI Corporation*

Dec 2020 – Present

*Ho Chi Minh City, Vietnam*

- Recommendation System for e-commerce platform at scale.
- Implement highly scalable applications using Graph Neural Network, Matrix Factorization, and Representation Learning algorithms.

### AI Engineer

*Dai Phat Solutions*

Dec 2018 – Nov 2020

*Ho Chi Minh City, Vietnam*

- Build an end-to-end Optical Character Recognition system.
- Develop wide-used computer vision solutions such as object detection, face recognition.
- Implement several RESTful APIs, micro-services to serving AI solutions.
- Build and deploy overall service infrastructure utilizing Docker container, focusing on high-availability, fault tolerance, and auto-scaling.

### Research Internship

*Ton Duc Thang University*

Jun 2018 – Nov 2018

*Ho Chi Minh City, Vietnam*

- Deep dive into basic theory of Machine Learning, Deep Learning, and the general terms of Artificial Intelligence.
- Build, train, and evaluate Image Segmentation, Object Detection model.
- Walkthrough sequence-to-sequence learning (Machine Translation, Text Generation) and Sequence Labeling in the field of Natural Language Processing.
- Experience in the generative model such as Generative Adversarial Network, Auto Encoder, etc.

## EDUCATION

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### Ton Duc Thang University

*Bachelor of Science in Computer Science*

Ho Chi Minh City, Vietnam

*Aug 2017 – Aug 2021*

### Huynh Man Dat High School for the Gifted

*Excellent student specializing in Informatics*

Kien Giang, Vietnam

*Aug. 2014 – May 2017*

## PROJECTS

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### Sentivi | *PyTorch, Scikit-learn, Transformers, FastAPI, Docker*

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.
- Public source code and documentation: <https://github.com/vndee/sentivi>

### Deepis (Deep Image Search) | *PyTorch, FastAPI, Kafka, Docker, Milvus, Elasticsearch*

Dec 2019 – Feb 2020

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

### Deepa (E-learning platform) | *OpenEdx, Docker, Django, Jenkins*

Mar 2020 – May 2020

- MOOCs (Massive Open Online Courses) platform that enhances high-level education based on OpenEdx open-source with containerizing deployment.

## COMPETITIVE PROGRAMMING

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**Codeforces Candidates Master** | *Rating 2065 (top 4%)* | <https://codeforces.com/profile/hdi>

2015-2017

**Hackerrank Algorithm Specialist** | *Rating 2268.76 (top 1%)* | <https://hackerrank.com/watagogo>

2017-2018

## SKILLS

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- Python, Linux, Java, C/C++, Docker, FastAPI, Jenkins, Git, Airflow, Kafka, GGC BigQuery.
- Algorithm and Data Structures, Data Mining and Visualization, Deep Learning, CI/CD, REST, Micro-service, Distributed System, Message Streaming, Research, Technical Discussion and Writing.

## HONORS & AWARDS

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<b>Province's Representative</b>   <i>First-round of National Team Selection Competition in Informatics</i>	2016 - 2017
<b>Finalist/Honor Prize</b>   <i>National Informatics Competition for Youth</i>	2017
<b>Silver Medalist</b>   <i>30/4 Olympiad for Gifted High School Student (South and Central Vietnam)</i>	2016
<b>Bronze Medalist</b>   <i>Costal and Northern Olympiad for Gifted High School Student</i>	2016

## COURSES

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- Computer Vision, Data Mining & Knowledge Discovery, Machine Learning, Mining Massive Datasets, Natural Language Processing.

## PUBLICATION

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

## REFERENECEES

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Assoc. Prof. Dr. Hien T. Nguyen (<https://hien.tech/>)