

VŨ MINH HƯNG

Machine Learning Engineer

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SUMMARY

- Have three years of experience in developing and deploying machine learning, deep learning models for many problems mainly focusing on Computer Vision
- Deep understanding about Python and have over three years working with Python technologies
- Have advanced knowledge about machine learning algorithms and optimization techniques
- Deep understanding and experienced use of object oriented programming concepts and design patterns
- Excellent problem solving skills
- Have experiences with System design
- Have good understanding about Data Structures and Algorithms
- Over 3 years of experience in web development
- Strong knowledge of probability theory, statistics and linear algebra
- Have good knowledge about Database
- Experienced use of cloud platform and software deployment
- Write clean code and unit tests

TECHNICAL SKILLS

<i>Programming Language</i>	Python, SQL, C++, JavaScript, TypeScript, Java
<i>Frameworks</i>	MXNet, TensorFlow, Pytorch, Keras, Django, gRPC, Flask, Scrapy, Angular, React, Kafka, DeepStream, Zookeeper
<i>Libraries</i>	TensorRT, OpenCV, NumPy, TVM, OpenVino, Scikit-learn, PyInstaller, Pandas, Matplotlib, Seaborn
<i>Cloud</i>	Amazon Web Services
<i>Database</i>	MySQL, PostgreSQL, MongoDB
<i>Operating System</i>	Ubuntu, Windows
<i>Source Control</i>	Github, Gitlab
<i>Software Process</i>	Agile (Scrum)
<i>Tools</i>	PyCharm, Google Colab, Jupyter Notebook, Anaconda, Docker, Swagger, Visual Studio Code

OBJECTIVES

A highly motivated software engineer seeking a challenging position where I can offer the company excellent solutions in software development and system architecture

EDUCATION

University of Transport and Communication

The degree of engineer: Civil Engineering

SOME OUTSTANDING PROJECTS

IVA Engine

6/2019

Roles: Deep Learning Engineer/MLOps Engineer

Company: VIVAS

Responsibilities:

- Develop the architecture of the machine learning models, collect data, design and train Deep Neural Nets, tuning and optimizing the models and deploying models into services
- Design and develop the system in microservice architecture which comprises of four core services: Facial Recognition, Traffic Surveillance, Basic Service and Security Surveillance
- Implement asynchronous, parallel programming techniques in services to optimize resource usage, speed up processing tasks
- Design and develop restful APIs RPC-based APIs for a centralized management server to receive and transmit data between services and clients
- Deploy services on premise servers and edge devices
- Support sale department and communicate with clients

Invoice Extractor

3/2019

Roles: Machine Learning Engineer

Company: FPT Software

Responsibilities:

- Preprocessing the image for OCR model including template matching, detect lines, binary threshold, gray scaling...
- Post processing the output data of the OCR model including rows merging, paragraph grouping, field segmenting...
- Serving model to extracting information of hospital invoices

Products Detection In Store

9/2018

Roles: Machine Learning Engineer

Company: FPT Software

Responsibilities:

- Build a dataset of products including recording video, labeling frames
- Use pretrained model with our own data to retrain the model
- Evaluating and tuning the model reaching over 90 percent accuracy
- Build a webapp to serving the model and deploy on cloud for the customer detecting products in given videos

Industry Prediction Problem

6/2018

Roles: Machine Learning Engineer

Company: FPT Software

Responsibilities:

- Crawling data from various sources, build a dataset of company name and their description with the labels are their industries respectively.

- Clean data, extract features from their description, and train the classification model
- Design and build a web API to serving the model for predicting industry field of companies

WORK EXPERIENCE

VNPT Technology, VIVAS

6/2019 - Now

Role: Deep Learning Engineer/MLOps Engineer

Location: Hanoi

Responsibilities:

- Design, develop and implement deep learning models for various problems
- Design and develop the architecture of the deep learning based applications and services
- Optimize resource usage of the system
- Work as a team leader at some phases of projects
- Support and communicate with clients

FPT Software, Solution & Technology Unit

5/2018 – 6/2019

Role: Machine Learning Engineer

Location: Hanoi

Responsibilities:

- Design and develop machine learning, deep learning models in various domains following projects' requirements
- Serving models, build restful API or web application for machine learning, deep learning models
- Research machine learning algorithms, libraries and domain knowledge
- Attend some competitions on Kaggle

FPT Software, FSU1.BU91

5/2017 – 5/2018

Role: Frontend Engineer

Location: Hanoi

Responsibilities:

- Developing front end components and features following client's requirements
- Unit testing front-end components
- Build web view for mobile application

08/2016 – 5/2017

Data Viet JSC

Role: Backend Engineer

Location: Hanoi

Responsibilities:

- Initialize and design database
- Develop APIs, write unit test and deploy some projects on premise servers
- Web application maintenance.