



## Loc-Phat Truong

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### EDUCATION AND TRAINING

#### Bachelor of Engineering Mechatronics Engineering Technology

**Ho Chi Minh City University of Technology and Education (HCMUTE)** [ 15/08/2015 – 14/04/2020 ]

**City:** Ho Chi Minh City | **Country:** Vietnam | **Website:** <https://en.hcmute.edu.vn/> | **Final grade:** 7.99/10 | **Thesis:** Research and Development of Deep Learning Algorithm for Tomato's Quality Classification System - Grade: 9.2/10

### RESEARCH EXPERIENCE

[ 01/2019 – 03/2020 ]

#### Student researcher

Ho Chi Minh City University of Technology and Education

Research Supervisor: Quang-Huy Vu, PhD

- Research topics: lightweight convolutional neural network; image classification; weakly-supervised object localization.
- Implement research with a custom CNN architecture inspired by the inverted residual block from MobilenetV2 and followed by a GradCAM visual explainer in real-time.
- Publish a full paper at the IEEE conference - GTSD 2020 and acquired the best thesis award in 2020.

### WORK EXPERIENCE

#### Data Scientist

**Knorex Pte. Ltd.** [ 01/2022 – 10/2024 ]

**Country:** Vietnam

- Joined as Level 2 (L2), promoted to L3 next year.
- Business problems: ads viewability, click-through rate (CTR), and conversion rate (CVR) optimization for online advertising, operating as both real-time and batch prediction.
- Research topics: online learning, contextual bandit, user-context features interaction, machine learning, tabular deep learning, model calibration.
- Deliver prototypes and deploy deep learning models at a scale of millions of requests per second.
- Coordinate the development and integration of MLOPs concept to the ML system.

#### Core AI Engineer

**SceneSeer (Startup)** [ 12/2019 – 07/2021 ]

**Country:** United States

- Research and apply optical character recognition (OCR) to our client's electronic health records (EHR) system, using [PaddleOCR](#) as the core OCR engine.
- Research and apply the latest studies in computer vision to implement several [prototypes](#) (fall detection, facial mask detection, multi-object multi-view tracking, etc.) to demonstrate the potential of AI for clients.

### PUBLICATIONS

[2020]

#### A Mobile Deep Convolutional Neural Network Combined with Grad-CAM Visual Explanations for Real Time Tomato

Quality Classification System 2020 5th International Conference on Green Technology and Sustainable Development (GTSD). IEEE, 2020. p. 321-325.

Loc-Phat Truong, Bach-Duong Pham, and Quang-Huy Vu.

## TEACHING EXPERIENCE

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[ 09/2017 – 12/2020 ]

### Teaching Assistant

Ho Chi Minh City University of Technology and Education

6 semesters

- AMME131529 Applied Mathematics in Mechanical Engineering
- AUCO330329 Automation Control
- EEEN230129 Electrical & Electronics Engineering

## HONOURS AND AWARDS

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**The honorable mention at Cough-based Covid-19 Detection Challenge** Link: <https://www.covid.aihub.vn/home>

Stay in the top 30 highest scores in both 2 phases of this cough audio classification challenge.

Amazon Web Services Training and Certification

**Amazon Web Services Certified Machine Learning – Specialty (certification)** Score: 941/1000

HCMUTE

**The best thesis award** The award for the top highest score thesis of all students graduating this year.

HCMUTE

**Study Encouragement Scholarship** The scholarship for outstanding academic performance in the academic year of 2017-2018.

Department of Education and Training of Khanh Hoa Province

**Third prize in Provincial Mathematics Contest Using Casio Handheld Calculator** Third prize in an annual Math contest using Casio Handheld Calculator for excellent students of all high schools in the province.

## EXTRACURRICULAR COURSES

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### Machine Learning Engineering for Production (MLOps) Specialization (4 courses)

Issued by: DeepLearning.AI (Coursera)

### Tensorflow: Advanced Techniques - Specialization (5 courses)

Issued by: DeepLearning.AI (Coursera)

### First Principles of Computer Vision - Specialization (5 courses)

Issued by: Columbia University (Coursera)

## DIGITAL SKILLS

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### Programming Languages

Python / Linux (Terminal Commands, Bash/Shell) / SQL / C

### Deep Learning Frameworks

Pytorch / Tensorflow

### Machine Learning, Data Science

scikit-learn / scipy / polars / matplotlib / pandas

### Specific domains

opencv / librosa

### Infrastructure

AWS / GCP / MLFlow / Docker / Git

## Writing and other tools

HTML / Markdown / LaTeX / Microsoft Office

## TALKS

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[ 10/2022 ]

### Model deployment with Tensorflow Serving

Technical Training Session for Research & Prototyping Department at Knorex.

[ 08/2022 ]

### Click-Through-Rate(CTR) Prediction

Technical Training Session for Research \& Prototyping Department at Knorex.

[ 11/2020 ]

### Conference paper presentation

2020 5<sup>th</sup> International Conference on Green Technology and Sustainable Development.

Paper: A Mobile Deep Convolutional Neural Network Combined with Grad-CAM Visual Explanations for Real Time Tomato Quality Classification System.

## EXTRACURRICULAR ACTIVITIES

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[ 2023 ]

### Knorex Reviewer's club

Chose a manuscript from the given list, prepare the comment, and conducted a pitch talk internally.  
Organized and supervised by Dr. Jin Yiping at Knorex.

[ 2016 – 2018 ]

### Participated in the ABU Robocon Contest 2017 and 2018

Led a team following the robotic competition's rules and instructions.

Knowledge gained: mechanical-electronic-programming interaction, robot manipulation, trajectory planning, controlling (PID controller), microcontroller programming, robot perceptions (rotary encoder, proximity sensor, line sensor, gyroscope, and accelerometer)

Link: <https://official-robocon.com/abu/>

## LANGUAGE SKILLS

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**Mother tongue(s):** Vietnamese

**Other language(s):**

**English**

**LISTENING** B2 **READING** C2 **WRITING** B2

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*