

HUY VU

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EDUCATION

York University

Master of Applied Science in Electrical and Computer Engineering

Cumulative GPA: 3.95/4.00

- Relevant Coursework: Machine Learning Theory, Digital Image Processing, Computer Vision

University of Information Technology

Bachelor of Engineering in Computer Engineering

Cumulative GPA: 3.5/4.00

- Awards: Sunflower Mission Engineering and Technology Scholarship (2015)

Toronto, Canada

Expected Apr. 2021

Ho Chi Minh, Vietnam

Aug. 2013 – Feb. 2018

EXPERIENCE

Research Assistant

York University, Department of Electrical Engineering and Computer Science

- Research Topic: image restoration with deep learning and graph signal processing.
- Several math topics were involved, e.g., convex optimization, spectral analysis, approximation, etc.
- Implemented and analyzed image denoising algorithms. Including BM3D, DnCNN.

Aug. 2019 – Present

Toronto, Canada

Teaching Assistant

York University, Department of Electrical Engineering and Computer Science

- Gave lecture on Probability to a thirty-student class.
- Were a MATLAB instructor of a third-year Probability course.

Aug. 2019 – Present

Toronto, Canada

Data Scientist

FPT Telecom

- Analyzed billions rows of network infrastructure logs to detect network issues using clustering and classification algorithms.
- Achieved high precision rate at 93 percent while the initial expectation was 60 percent.
- Communicated with other departments to resolve detected network issues.

Mar. 2018 – May. 2019

Ho Chi Minh, Vietnam

Machine Learning Research Intern

KMS Technology, Inc.

- Built NLP models for understanding resumes and matching them with job descriptions.
- Built knowledge graph (with neo4j) for IT recruitment domain.

Aug. 2017 – Dec. 2017

Ho Chi Minh, Vietnam

PROJECTS

Motorbike image generation using LSGAN | *Python, PyTorch, HTML, Selenium*

Spring 2020

- Built a crawler to automatically download motorbike images on the Internet.
- Trained a Least Squares Generative Adversarial Networks to generate motorbike images.

PyTorch Implementation of DeepGLR | *Python, PyTorch*

Fall 2019

- Implemented a graph neural network denoising algorithm (DeepGLR) on PyTorch.
- Performance optimization with various techniques such as vectorization, multiprocessing.
- The project was selected for The GitHub Arctic Code Vault program.

Diabetic Retinopathy Classification using Deep Learning Model | *Python, Tensorflow, Electronjs*

Jan. 2018

- Trained state-of-the-art deep learning model (Inception-v3) to classify diabetes stages based on retina images.
- Deployed as a desktop application via Electronjs.

PUBLICATION

H. Vu, G. Cheung, Y. C. Eldar, “Unrolling of Deep Graph Total Variation for Image Denoising,” (submitted to) IEEE International Conference on Acoustics, Speech and Signal Processing, June 2021

SKILLS

Programming: Python, MATLAB, C++, SQL, LaTeX