

# NGUYEN LE QUAN

AI researcher

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## SUMMARY

A computer vision engineer with hand-on experience in using both traditional and deep learning methods to solve CV problems.

## SKILLS

**Programming language:** Python

**Computer Vision:** OpenCV

**Deep Learning:** Keras, Pytorch

## PROJECTS

**Facial Keypoint Detection:** An end-to-end pipeline to detect 15 keypoints on human face using Haar cascade (to detect face) and deep learning (to find keypoints locations). The Kaggle's "facial keypoint detection challenge" dataset is used for training and validating the keypoint detector.

Github repo: [https://github.com/NinV/AIND/tree/master/term\\_2/AIND-CV-FacialKeypoints/](https://github.com/NinV/AIND/tree/master/term_2/AIND-CV-FacialKeypoints/)

**Dog Breeds Classification:** Solving a fine grain classification task using transfer learning.

Github repo: [https://github.com/NinV/AIND/tree/master/term\\_2/dog-project](https://github.com/NinV/AIND/tree/master/term_2/dog-project)

**Image captioning:** A combination task of computer vision (CV) and natural language processing (NLP). The method using in this project is based on the encoder-decoder model often used in machine translation task. The encoder is a pre-trained RESNET50 to extract feature vectors then feed it to an LSTM network to produce captions.

Github repo: [https://github.com/NinV/P2\\_image\\_captioning.git](https://github.com/NinV/P2_image_captioning.git)

## PROFESSIONAL EXPERIENCE

**Quality Control Engineer** at Tien Tuan Pharmaceutical Machinery Ltd, Ho Chi Minh city

September 2014 – March 2018

- Carrying out unit testing on equipment's control system and general mechanical inspection testing.
- Assessing operational safety according to Machinery Directive (2006/42/EC) and its harmonized standards.
- Carrying out integrated testing to assess equipment performance and detect product defects then working with other teams to resolve problem.

## EDUCATION

Computer Vision Nanodegree, Udacity

2018 – 2018

Artificial Intelligence Nanodegree, Udacity

2017 – 2018

Deep Learning Foundation Nanodegree, Udacity

2017 – 2017

PyImageSearch Gurus Graduate, PyImageSearch

2016 – 2017

Bachelor of Engineering in Food technology, Hanoi University of Science and Technology

2008 – 2014