# Vladimir Luchinskiy

**Saint-Petersburg, Russia**

: vladimir.luchinskiy@yandex.ru

: github.com/ucLh

I am a Master's Degree student and a Computer Vision Engineer with over 2 years of experience looking for a Middle Computer Vision Engineer position in a field of Deep Learning (in Saint-Petersburg or remote).

## WORK EXPERIENCE

**Computer Vision Engineer** Nov 2018 – Present

*Computer Vision Systems LLC | Saint-Petersburg, Russia*

- Worked on city objects recognition task in Augmented.City project.
  - Trained FaceNet with center loss to perform image retrieval for corresponding task. The network has won a city objects recognition competition held by FPI.
  - Used generative adversarial network (CycleGAN) for the expansion of training data for the task of city objects recognition in different weather conditions. Specifically, the expansion was done by converting summer pictures to their winter counterpart via GAN. This approach improved accuracy on winter data from 31% to 42%.
  - Wrote pipelines using TensorFlow 1.x and tf.data API.
- Used two-headed Unet-EfficientNet for searching defects on steel pipes using Pytorch. Proved the concept and helped my company to earn a contract with TMK.
- Converted Pytorch segmentation and detection models to TensorRT for deploying on NVDIA Jetson. Created a small C++ library for inferencing these models via TensorRT.

## SKILLS

**Languages**: Python, C++

**Tools**: Pytorch, TensorFlow 1.x, Numpy, OpenCV, TensorRT, Jupyter Notebook, Matplotlib, Linux, Docker

**Mathematics**: Calculus, Linear Algebra

**Languages**: Russian (native speaker), English (Upper-Intermediate)

## PET PROJECTS

**TensorFlow networks with C++**

The project provides toolkit for inferencing TensorFlow networks using TensorFlow bindings for C++ and can perform image retrieval or segmentation with them.

## EDUCATION

**Master's degree** 2020 - Present

*Saint-Petersburg State University, Mathematics and Mechanics faculty, System Programming department | Saint-Petersburg, Russia*

**Bachelor's degree** 2016 - 2020

*Saint-Petersburg State University, Mathematics and Mechanics faculty, System Programming department | Saint-Petersburg, Russia*

## ADDITIONAL COURSES

**Stanford's CS231n** 2018

*Course dedicated to convolutional neural networks for visual recognition. Studied lectures on YouTube and completed home assignments*