# Vladislav Kuleikin

Kazan/Russia | vlad.kuleikin@gmail.com | +79991560413

github | linkedin | telegram


## Summary


I work full-time as a CV/ML engineer at RoadLy Inc. My main expertise as a CV engineer is object detection/tracking, semantic/panoptic segmentation, and working with 3D data. But I also have some experience with generative models (GAN/Diffusion). Lately, I have shifted my focus to being an ML engineer to bridge the gap between raw model inference and business objectives.


## Education

### Innopolis University *2016-2020*

Bachelor's Degree in Computer Science with Major in Data Science

- The first two years covered general CS topics and the following two years covered Data Science subjects.
- Final GPA: 3.36/4.0. Full transcription is available here.

## Experience

### RoadLy *July 2020 - Now*

Computer Vision/Machine Learning Engineer

The main focus of RoadLy products is the automation of asset inspection using regular smartphone cameras.

- ***LiDAR to DXF*** - Analysis of annotated LiDAR data for urban infrastructure mapping.
- ***Car Plate Generation*** - Diffusion model for generation of car planes with spatial conditioning.
- ***Traffic Signs Classification*** - Small classifier with more than 1000 classes.
- ***Traffic Signs Generation*** - StyleGAN model for generation of underrepresented traffic signs using just icons.
- ***Road Asset Inspection*** - 3D asset mapping, road modeling, BEV camera estimation, inference optimization, back-end development and database architecture.
- ***Road Guide-rails Inspection*** - Model architecture, data gathering, annotation team management, and semantic segmentation model training.
- ***SLAM Platform*** - Container for fast semantic/panoptic segmentation, object detection, classification, tracking.
- ***System for Identifying Lost Pets*** - Dog face key-point detection.
- ***Traffic Estimation and Road Accidents*** - Data gathering, train/optimize object detection model for edge devices.

### X5 Retail Group *April 2019 - July 2019*

Machine Learning Intern

- ***IT Support Work Classification & Analysis*** - Data preprocessing and classification of dialogues using unsupervised ML.
- ***Grocery Store Customers Behavior Analysis*** - Scraping data from cash register logs, extracting text features and building models.

## Hackatons

### HappyWhale *March-April 2022*

Kaggle Competition - 18'th place

- ***Whale and dolphin re-identification*** using their distinct features, such as dorsal fins. Our team managed to get 18'th place by training multiple models, combining them with MLP, and using ArcFace as a loss function. Each of the teammates had performed EDA, field exploration, and model training,

### RoadHack *November 2021*

Codenrock Hackaton - 1'st place

- ***LIDAR semantic segmentation for road distresses***. Our team had trained segmentation models for cracks and potholes and processed point clouds delivering the desired results in under two days. I was responsible for data gathering, model training, and partially for road model estimation.

## Skills

| | |
|---|---|
| **Programming Languages** | ***Proficient:*** Python \| Bash \| Regexp ***Familiar:*** SQL \| JavaScript \| C++ \| Haskell |
| **Software Development** | Docker \| Git \| ClearML \| WandB \| CVAT \| Agile |
| **Frameworks & Libraries** | ffmpeg \| pandas \| matplotlib \| fiftyone \| streamlit \| FastAPI \| hydra |
| **DS Frameworks** | Classical CV \| Pytorch \| MMCV \| OpenCV \| Ffmpeg \| ONNX \| OpenVino |
| **Languages** | ***Native:*** Russian ***Fluent:*** English |
| **Hobbies** | Table Games \| Smart Home \| Self-Hosting |


Last updated: September 10, 2025