

Yulia Yakovleva

Software engineer

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Experience

- November 2021 – **Machine learning engineer**, *Descriptor.ai*, Remote/Moscow.
- Now
- Sound data processing with deep learning models (Python, NumPy, TensorFlow, Keras, Sound data).
- July 2021 – **Machine learning engineer**, *MediaZona*, Remote/Moscow.
- October 2021
- AI Text Generation (NLP, Python, NumPy, TensorFlow, Keras, Transformers, GPT): I worked on conditional text generation with neural networks. My responsibilities included both engineering/coding and interaction with non-tech employees of MediaZona on translating their non-tech requirements into "tech language", finding the data and getting a feedback on text generators' work.
- March 2018 – **Software engineer**, *Yandex Self-Driving Cars*, Moscow.
- May 2021
- Sensor diagnostics software (ROS, C++, Python, NumPy): I created data quality checking software modules for cameras and LiDARs.
 - Traffic lights recognition software (ROS, C++, Python, NumPy, TensorFlow, Keras).
 - I worked on improvement of traffic lights recognition and tracking pipeline,
 - learning data mining, pre-processing and datasets preparation,
 - created, learned and deployed multiple iterations of deep neural networks, which are working now on hundreds of self-driving cars made by Yandex.
- October 2015 – **Robotics researcher/developer**, *Institute for Information Transmission*
- August 2017 *Problems RAS (Kharkevich Institute)*, Moscow.
- I worked on self-driving car prototype positioning and control software including: system launch tool to replace ROSLaunch, positioning and control systems (C++, Python, ROS, Eigen, Computer Vision, Kalman filters).
- June 2015 – **Junior web-developer**, *WETA Group*, Remote.
- October 2015 Full-stack web-development
- July 2013 – **Junior control systems developer**, *Modern Signal Processing and Control Technologies R&D Laboratory*, Chelyabinsk.
- June 2015

Volunteering

- May 2020 – now **Web developer/data analyst**, *OVD-Info*, Remote/Moscow.
- OVD-Info is an independent human rights media project. I'm participating in development of information collection and analysis system for OVD-Info using SQL, Python and Django.

Talks

Traffic Lights in Yandex Self-Driving Cars, *Presented at Yandex Self-Driving Meetup 2019, PyLadies Moscow and PyLadies Kazan.*

Myths about Self-Driving Cars, *Presented at WTM Moscow.*

Data mining in Yandex Self-Driving Cars, *Presented at Pytup Moscow.*

Education

2010–2015 **National Research South Ural State University**;
Computer Technologies, Control and Radio Electronics Faculty;
Automation and Control Department;
MEng with honours.

2015–2017 **Moscow Institute of Physics and Technology (State University)**;
Department of Innovation and High Technologies;
Cognitive technologies sub-faculty;
MSc in Computer Science.

Languages

Russian Native speaker

English Intermediate

German Beginner

Tatar Beginner

Skills

Main:

C++ (Eigen), Python (Jupyter, NumPy, Keras, Sklearn), Git, ROS, Linux, Machine Learning, Computer Vision.

Experience with:

Bash, C, OpenCV, JS (some outdated frameworks), Django, Docker, L^AT_EX, Dynamic systems math modelling, Matlab/Simulink.

Pet projects

rTerm, *github.com/roboLamp/rTerm.*

Fake JS-based UNIX term for my personal page.

Random three body problem bot, *github.com/roboLamp/3_body_problem_bot.*

A program which is simulating the behavior of random three body system multiple times and publishing animation of the most interesting one every 12 hours at Telegram channel.