

Yulia Yakovleva

Software engineer

Amsterdam
Netherlands
✉ redslowj@gmail.com
🔗 robolamp
in Yulia Yakovleva

Experience

- November 2022 – **Machine learning engineer**, *Stability.ai*, Warsaw/Amsterdam
- Now I worked on the following projects:
- Stable-Finetuning (Python, PyTorch, CUDA, diffusion models): My responsibility was pre-processing and algorithm side of the service and only a bit on infrastructure.
 - LLM-related effort.
 - Brain2image effort.
- November 2021 – **Machine learning engineer**, *Descriptor.ai*, Remote/Moscow
- February 2022 ○ I created a few good-performing voice sentiment analysis models (Python, NumPy, TensorFlow, Keras, Audio 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 Problems RAS (Kharkevich Institute)*, Moscow
August 2017 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

Patents

- 2020 **Method of and system for determining traffic signal state**
Artamonov, Kalyuzhny, Yakovleva
○ US Patent US20210201058A1, application at 2020.09.28, pending.
○ European Patent EP3842996A1, application at 2020.10.14, pending.

Talks

- 2019 **Myths about Self-Driving Cars**, *Presented at WTM Moscow*
2019 **Traffic Lights in Yandex Self-Driving Cars**, *Presented at Yandex Self-Driving Meetup 2019, PyLadies Moscow and PyLadies Kazan*
2020 **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.

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.

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.

Languages

Russian Native speaker

English Fluent

German Beginner

Tatar Beginner

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.