Yulia Yakovleva
Software engineer

Warsaw
Poland
✉ *redslowj@gmail.com*
⊙ *robolamp*
in *Yulia Yakovleva*

Experience

November 2022 – Now
Machine learning engineer, *Stability.ai*, Warsaw/Amsterdam
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 ifrastructure.
- LLM-related effort.
- Brain2image effort.

November 2021 – February 2022
Machine learning engineer, *Descriptor.ai*, Remote/Moscow
- I created a few good-performing voice sentiment analysis models (Python, NumPy, TensorFlow, Keras, Audio data).

July 2021 – October 2021
Machine learning engineer, *MediaZona*, Remote/Moscow
- 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 – May 2021
Software engineer, *Yandex Self-Driving Cars*, Moscow
- 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 – August 2017	**Robotics researcher/developer**, *Institute for Information Transmission 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 – October 2015	**Junior web-developer**, *WETA Group*, Remote
	Full-stack web-development
July 2013 – June 2015	**Junior control systems developer**, *Modern Signal Processing and Control Technologies R&D Laboratory*, Chelyabinsk

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)**;
	Deparment 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, LaTeX, 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.