Yulia Yakovleva

Software engineer

Warsaw
Poland
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♀ robolamp
in Yulia Yakovleva

Experience

March 2022 – Machine learning engineer, Rainbow.ai, Warsaw

September 2022 • I worked on applying deep learning models for weather forecasting (Python, PyTorch, Weather RADAR data).

November 2021 - Machine learning engineer, Descriptor.ai, Remote/Moscow

February 2022 O 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, Tensor-Flow, 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 Trans-August 2017 mission 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 June 2015 Control Technologies R&D Laboratory, Chelyabinsk

Patents

- 2020 Method of and system for determining traffic signal state Artamonov, Kalyuzhny, Yakovleva
 - O US Patent US20210201058A1, application at 2020.09.28, pending.
 - o 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, LATFX, Dynamic systems math modelling, Matlab/Simulink.

Languages

Russian Native speaker

English Fluent

German Beginner

Tatar Beginner

Pet projects

 ${\bf rTerm}, \, {\it github.com/robolamp/rTerm}$

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.