

# IVAN LAZUNIN

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## EXPERIENCE

### MLE Computer Vision

Sber.Devices

Moscow, Russia Oct 2022 — Present

PyTorch OpenVino ONNX Transformers

Researched and developed a layout analysis model.

- Developed a pipeline and model for identifying strings based on LayoutLMv3, which improved metrics by 20%
- Optimized the model for CPU usage through quantization, resulting in a 50% increase in speed
- Quantized the segmentation model for CPU usage with a speed increase of 3x and for mobile devices with a speed increase of 40% and a 3x reduction in memory consumption

### Computer Vision Intern

Sber.Robotics

Moscow, Russia Feb 2022 — Jun 2022

Python PyTorch OpenCV Lidar

Self-driving delivery robot team. Worked on computer vision and perception problems.

- Improved quality of recognition of dynamic objects on lidar data.
- Worked with camera + lidar fusion semantic segmentation model for robot navigation.

### ML Engineer Intern

Yandex

Moscow, Russia Jun 2021 — Sep 2021

Python MapReduce SQL NLP

Worked in the content classification team.

- Improved data reuse in the process of classification models training
- Optimized the process of marking up web documents for content classification. Obtained by using the most relevant information of the page for crowdsourcing
- Used image and text classifiers for page markup

## PROJECTS

### Assessing Humor in News Headlines

Yandex, Sirius

Sirius, Sochi Apr 2021

Python PyTorch DVC Transformers BERT

- Worked on a humor recognition and generation project. Trained RuGPT on a dataset of Russian jokes.
- Automated experiment tracking with DVC and S3 registry.

### Single Image Reflection Separation

Yandex, HSE, Sirius

Sirius, Sochi Nov 2019

Python PyTorch OpenCV Flask

- Implemented and trained ResNet and U-net based model and some generative architectures.
- Developed an MVP of reflection removing service with Flask.

## EDUCATION

### BSc. Computer Science

Russian Technological University

Sep 2019 — Now Moscow, Russia

Applied Mathematics (Data Analysis)

## ACHIEVEMENTS

### International Engineering Championship

«Case-In»

1st place

Sep 2020 Moscow, Russia

The predictive maintenance problem, team competition «Digital Atom»

### NTI Contest: Big Data track

final round

Feb 2018 Moscow, Russia

The annual high school student team tech competition

### Russian Computer Science competition

2nd place, regional round

Feb 2018 Vladimir, Russia

School Programming Olympiad

## SUMMER SCHOOLS

### Intensive Workshop on Reproducing SOTA

Apr 2021, Oct 2019 Sochi, Russia

### Programming schools at MIPT

Aug 2018, Jan 2019 Moscow, Russia

## ADDITIONAL

#### Skills

CV, NLP, Transformers, Quantization, OpenVino, ONNX, Git, CI/CD, Docker, C++, bash

#### Languages

Russian (native)  
English (B2)

#### Hobbies

Music creation, travelling, photography