

# Dmitry Barsukov

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## CONTACT INFORMATION

Residence: Russia — 19 y.o.

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## PROFESSIONAL SUMMARY

Experienced Machine Learning Engineer with over 4 years of hands-on expertise in developing AI-driven solutions, specializing in Text-to-Speech services, computer vision, and deep learning optimization.

Skilled in deploying scalable and efficient AI systems using a wide range of model servers, including Triton and OpenVINO, tailored to different frameworks and performance needs.

Extensive experience working with frameworks like TensorRT, ONNXRuntime, PyTorch, and TensorFlow, ensuring seamless integration and optimization for various deployment scenarios.

Proficient in setting up comprehensive observability systems using Grafana, Prometheus, and Kibana to monitor and enhance the performance and reliability of distributed AI services.

Proven record of improving system performance, reducing latency, and delivering robust AI solutions to meet business objectives.

## RESEARCH AREAS OF INTEREST

Machine Learning; Deep Learning Model Optimization; Computer Vision; Speech Technologies

## LANGUAGES

Russian (native); English (advanced)

## PROGRAMMING SKILLS

**Languages:** Python (advanced), Go (advanced), C/C++ (average)

**Deep Learning Frameworks:** PyTorch, TensorFlow, Keras

**Optimization frameworks:** Torch compile, TensorRT, Tritonlang, OpenVINO, Triton Server

**Technical skills:** OpenCV, Torchaudio, Docker, Kubernetes, Git, CI/CD, Observability, Linux

## EMPLOYMENT AND EXPERIENCE

### MTS AI

June 2022 - Present

Senior Python Machine Learning Engineer

Development of a Text-to-Speech service that outperforms top competitors in the Russian language.

Main responsibilities: model inference optimization, deployment, and supporting business logic.

**Technologies:** Python, PyTorch, WandB / ClearML, Triton Server, Observability, Docker + Kubernetes, Git + CI/CD

### SIRIN

March 2021 - January 2022

Middle Python Machine Learning Developer

Development of a service using computer vision for automatic opening of car barriers. Main responsibilities: researching model architectures, finding/generating datasets, training, and deploying models.

Achieved 99% accuracy in recognizing Russian license plates and 90% in recognizing

any license plates.

**Technologies:** Python, PyTorch, OpenCV, Docker + Kubernetes, OpenVINO + Triton Server, Observability (Grafana, Kibana, Prometheus), Git + CI/CD

**ITMO University**

January 2020 - December 2020

Python Machine Learning Developer

End-to-end development of a service for building facade segmentation.

**Technologies:** Python, TensorFlow + Keras, OpenCV, Docker, Git

**SPIIRAS**

August 2018 - October 2020

Junior, then Middle Python Machine Learning developer

End-to-end development of a service for recognizing the faces of employees.

**Technologies:** Python, TensorFlow + Keras, RealSense DepthCamera, OpenCV, Docker, Git

EDUCATION

**Higher School of Economics**

Moscow, Russia (Remote)

Applied Mathematics and Information Science.

September 2023 - Present

**St Petersburg University Academic Gymnasium**

Saint-Petersburg, Russia

Faculty of Physics and Mathematics

September 2020 - June 2023