Sergei Bogdanov

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EDUCATION

Moscow Institute of Physics and Technology, QS EECA top 10 — GPA: 4.73/5

Bachelor of Applied Mathematics and Computer Science, Minor in Machine Learning — *Sep. 2018 – Aug 2022*

Thesis: *Reliable and Efficient Face Identification during COVID-19*

Yandex School of Data Analysis — GPA: 5/5

Computer Vision, 3d Computer Vision, Natural Language Processing, — *Sep. 2020 – Aug 2022*

ML for Audio and Speech, Recommendation Systems, Reinforcement Learning, Python, GO

School №2097 with advanced Math and Computer Science — GPA: 5/5

WORK EXPERIENCE

Python Developer + DevOps — Aug. 2021 – Feb. 2022, May 2022 – Present

AgBlox, Silicon Valley startup, remote
- Designed and implemented robust algorithm for absolute daily searches estimation for the given topics.
- **Responsible for design, BackEnd, ML & DevOps.**
- Created scalable version of this algorithm by utilising AWS lambda functions.
- Decreased prediction fluctuation on noisy data by 3 times.
- Deployed project on **AWS** and developed API: **EC2, lambda, RDS, S3, API Gateway, VPC, ECS.**

Python + Go Developer — Dec. 2021 – May 2022

Tinkoff, Face biometric department
- Developed quality assurance concurrent automatic tests of our products for dev & prod environments.
- Responsible for gRPC API expansion and Machine Learning models deployment.
- Stack: **Go, Python, Docker, Kubernetes, Redis, PostgreSQL, S3.**

Machine Learning Researcher (CV, Computer Vision) — Oct. 2020 – May 2022

Tinkoff, Face biometric department
- Solved Classification, Regression, Object Detection, Object Recognition, Model Compression, Segmentation, Image Reconstruction (AE, VAE), Best Frame Selection problems.
- Increased Face Detection **MAP from 0.68 to 0.82** on Masked Faces.
- Decreased Face Recognition RAM usage (now **3 times smaller**) without quality decrease.
- Increased Face Identification **TPR from 0.09 to 0.99** with FPR=1e-3 on Masked Faces.
- Increased Face Identification **TPR from 0.94 to 0.96** with FPR=1e-7 on company's private dataset.

Machine Learning Researcher (NLP, Natural Language Processing) — Jul. 2020 – Sep. 2020

Jetbrains, IntelliJ
- Developed model for **Method name generation** task which is comparable to **SOTA**
- Developed model for Code-SearchNet task: **Top-20% out of all competition participants.**

ACTIVITIES AND LEADERSHIP

Vice President of the University's **English speaking club**.

Mentor intern Machine Learning Engineer at Tinkoff. The topic is model compression.

Gave the **interview** about my experience in Computer Vision and our team in Tinkoff Bank.

Gave a **talk** about my **University thesis**.

Recorded a **lecture** and a **seminar** about Computer Vision classification architectures and Neural Architecture Search.

Gave an intracorporate **talk** reviewing different Zero-Shot and Few-Shot object detection and classification approaches.

Volunteer in application committee at the University in 2019 and in local orphanage in 2018.

OLYMPIADS

- **BMSTU** Informatics Olympiad *Absolute winner.*
- **ITMO** Informatics Olympiad *Double Awardee.* Top-3%
- **Moscow State University** Math Olympiad *Awardee.* Top-5%