

## EDUCATION

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- **Yandex School of Data Analysis** Moscow, Russia  
*Courses: Advanced C++ (Concurrency, Networking), Algorithms, Statistics, ML, RL.* 2021 – 2023
- **Higher School of Economics** Moscow, Russia  
*Master of Applied Mathematics and Computer Science.* 2021 – 2023
- **Higher School of Economics** Moscow, Russia  
*Bachelor of Informatics; GPA: 8.61/10.0, top 10%.* 2016 – 2020

## EXPERIENCE

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- **Data Driven Lab** Belgrade, Serbia  
*Data Scientist* May 2022 - Present
  - Building an anti-fraud solution for FBS, a trading platform with 10+ million users. My solution detected fraud with a total loss of \$X million.
  - Using Python, CatBoost, PostgreSQL, Airflow.
- **Sber AI Lab** Moscow, Russia  
*Machine Learning Research Engineer* Jul 2020 - Jan 2022
  - The main project was to identify the early signs of breast cancer on mammograms. The paper was accepted to a top-tier AI conference EMNLP.
  - Conducted R&D in AI in Healthcare in tasks such as Diagnosis Prediction/Text Summarization/Text Generation/Medical Image Processing. Published 4 papers.
  - Trained the largest Russian biomedical language model (RuBioRoBERTa) distributed on a cluster of 16 GPUs.
  - Improved Diagnosis Prediction in Moscow clinics (+2.5% Hit@3).
- **Yandex** Moscow, Russia  
*Machine Learning Engineer Intern* Jan 2020 - Jun 2020
  - Developed an article recommender systems for Yandex.Zen based on Transformer models (BERT4Rec/Behavior Sequence Transformer) and collaborative filtering (eALS/iALS/ease).
  - Improved recommendations quality (0.5% logloss decrease).
  - Used Java, Python, Tensorflow, SQL, MapReduce (YT).
- **Tinkoff Bank** Moscow, Russia  
*Machine Learning Engineer Intern* Oct 2019 - Dec 2019
  - Developed a recommender system prototype based on customer purchases (used DSSM/ALS models).
  - Used Python, PyTorch, SQL, Hadoop, Greenplum, Apache Zeppelin.
- **Bounty0x** Remote  
*Solidity Engineer* Jan 2018 - Jun 2019
  - Developed Smart Contracts on Solidity, integrated them into Node.js backend and React frontend.
  - Used MongoDB, PostgreSQL, Express.js, Heroku, Web3, Truffle.

## SKILLS

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- **Programming:** Python, C++, Java, C#, Solidity, SQL, bash.
- **ML tools:** Pytorch, TensorFlow, MapReduce, Hive, Airflow, Mlflow, Pytorch Lightning, HuggingFace.
- **Other tools:** linux, git, docker, zsh, vim, flask, fastapi, protobuf, grpc.

## PUBLICATIONS

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- Yalunin, Alexander, et al. "Generating Mammography Reports from Multi-view Mammograms with BERT." Findings of the Association for Computational Linguistics: EMNLP 2021. <https://aclanthology.org/2021.findings-emnlp.15.pdf>
- Yalunin, Alexander, et al. "RuBioRoBERTa: a pre-trained biomedical language model for Russian language biomedical text mining." arXiv preprint arXiv:2204.03951, 2022. <https://arxiv.org/pdf/2204.03951.pdf>
- Yalunin, Alexander, Dmitriy Umerenkov, and Vladimir Kokh. "Abstractive summarization of hospitalisation histories with transformer networks." arXiv preprint arXiv:2204.02208, 2022. <https://arxiv.org/pdf/2204.02208.pdf>

## ACHIEVEMENTS

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- **Programming competition Yandex Cup, 2020:** 2nd place.
- **Programming competition Yandex Cup, 2019:** 5th place.
- **Slash Hackathon in Berlin, Germany, 2019:** final round qualifier.
- **Tinkoff Fintech School, Machine Learning in dialogue systems, 2018:** 4/32 in the alumni ranking.
- **University scholarship for academic excellence**

## PERSONAL

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Upper-intermediate English, intermediate Spanish, fluent Russian. My favorite games are chess, poker and dota2.