

Sergey Kushneryuk

Latest version of my CV can always be found [here](#)

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Education

- 2019 – present **Bachelor Degree in Applied Mathematics and Computer Science**, *Moscow Institute of Physics and Technology*, GPA: 4.79/5.0.
- Department of Image Recognition and Text Processing founded by [ABBYY](#): Deep learning, CV, NLP
 - Advanced DS-program: Machine & Deep learning, Mathematical Statistics, Time series forecasting
 - Math courses: Discrete analysis, Probability Theory, Calculus, Linear Algebra, Group Theory
 - Programming courses: Algorithms & Data structures, C++, Python, Computer Architecture & Operating Systems, Concurrency, Databases, Theory of Fault-tolerant Distributed Systems
- 2021 – present **Machine learning developer academic program**, *Yandex School of Data Analysis*.
- Machine learning, Reinforcement learning, C++, Go, Algorithms & Data structures

Working experience

- summer 2022 – now **ML Intern**, [Meteum.AI](#) - Weather Experiments Team, Python, TensorFlow, SQL.
- Conducting experiments to improve weather prediction models for precipitation
- summer 2021 **SWE Intern**, [Yandex](#) Weather Back-end Team, C++, Python, Go, Google Protobuf.
- Developed 4 new weather scenarios for voice assistant Alice and set up experiments for their AB-testing
- 2020 – 2021 **Competitive Programming Tutor**, *SPGuide*.
- Taught school students from 6 to 11 grade basic Algorithms & Data structures, C++, Python

Software skills

- ML/DS Python: PyTorch (+Lightning), Transformers, Catboost/XGBoost/LightGBM, Sklearn, NumPy, Pandas, SciPy, Statsmodels, tsfresh, mediapipe; Pytest; R
- Other C++, Go, C, Bash
- Tools Git, Unix, Build systems (CMake), LaTeX, Jira/Confluence/Bitbucket

Other skills

- Basic and advanced ML/DS models knowledge** regularly used in practical study tasks
- Strong algorithm and data structures knowledge** obtained at university courses and enhanced by participating in programming contests and working as SWE
- Software engineer experience and Teamwork skills** obtained by working on study and real projects and taking part in team programming competitions

Study projects

- 2022 **Image Captioning Model**, Task on Deep Learning Course on IRTP MIPT.
Neural network for image captioning based on inception_v3, LSTM and Attention
- 2021 **LOLCODE interpreter**, Entrance task for Compilers course at MIPT.
Mini-interpreter of esoteric programming language LOLCODE
- 2020 **Type Trainer**, Project for Python Course and Technology of Programming Course at MIPT.
Simple type-training game
- 2020 **Mini-library for finite automata**, Project for Formal Languages Course at MIPT.
NFA to DFA, complete DFA and minimal DFA conversions
- 2020 **Encryptor and Decryptor of cyphers**, Project for Python Course at MIPT.
Encoder and decoder of Caesar, Vigenere and Vernam cyphers, breaker of Caesar cypher using existing texts

Achievements

- 2020 **1/4 ICPC**, place 61/277 in the team **Red-Black Trio** (Kushneryuk, Mikhailov, Kukharenko).
- 2019 **MIPT School Olympiad "Phystech" in Mathematics**, Diploma of First degree.
- 2019 **All-Russian Team Programming Contest**, place 70/252 in the team Kushneryuk, Katun'kin, Timirshina.
- 2018 **Regional stage of All-Russian School Olympiad in Mathematics**, Diploma of First degree.

Languages

- Russian Native Speaker
- English B2-C1 Upper-Intermediate