

Sergey Kushneryuk

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Education

2019 – present **Bachelor Degree in Applied Mathematics and Computer Science**, [Moscow Institute of Physics and Technology](#), GPA: 8.64/10.0.

- 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 **SWE Intern**, [Yandex](#) Weather Back-end Team, C++, Python, Go, Google Protobuf.

- 2021 ◦ 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), Catboost/XGBoost/LightGBM, Sklearn, NumPy, SciPy, Pandas; 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

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, Kukhareenko).

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