

# Sergey Kushneryuk

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## Education

- 2019 – present **Bachelor Degree in Applied Mathematics and Computer Science**, [Moscow Institute of Physics and Technology](#), Department of Image Recognition and natural language processing founded by [ABBYY](#).  
GPA: 8.64/10.0
- 2021 – present **Maching learning developer academic program**, [Yandex School of Data Analysis](#).

## Previous jobs

- Summer 2021 **SWE Intern**, [Yandex](#), Yandex.Weather back-end.  
C++, Python, Go + Go-templates, Google Protobuf
- 2020 – 2021 **Competitive Programming Tutor**, [SPGuide](#).  
Tutor in Competitive Programming school, teaching school students competitive programming (basic algorithms and data structures, C++ and Python languages)

## Software skills

- ML/DS Python: Pytorch (+Lightning), Catboost/XGBoost/LightGBM, Sklearn, NumPy, SciPy, Pandas; Pytest; R
- Other C++, C, Go, 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 competitive programming contests and working as software engineer

**Software engineer experience and Teamwork skills** obtained by working on study and real (during internship in Yandex) projects and taking part in team programming competitions

## Study projects

- 2020 **Type Trainer**, Project for Python Course and Technology of Programming Course at MIPT.  
Type-training game for helping children study type faster
- 2020 **NFA to minimal DFA Converter**, Project for Formal Languages Course at MIPT.  
Converting NFA (nondeterministic finite automaton) to DFA (deterministic finite automaton), complete DFA and minimal DFA with printing of interim results and returning code to display automaton in LaTeX
- 2020 **Encryptor and Decryptor of cyphers**, Project for Python Course at MIPT.  
Encode and decode Caesar, Vigenere and Vernam cyphers, hack Caesar cypher with use of existing texts, for example books, by counting letter frequencies
- 2021 **LOLCODE interpreter**, Entrance task for Compilers course at MIPT.  
Mini-interpreter of esoteric programming language LOLCODE

## Achievements

- 2020 **1/4 ICPC**, 61 place out of 277 in the team Red-Black Trio (Kushneryuk Sergey, Mikhailov Bair, Kukharenko Vladimir).  
[Video from award ceremony](#)

## Languages

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