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

Autumn of 2020 – Autumn of 2021 **Competitive Programming Tutor**, *SPGuide*.
Tutor in Competitive Programming school, teaching school students competitive programming (basic algorithms and data structures, C++ and Python languages)

July - September of 2021 **SWE Intern**, *Yandex*, Yandex.Weather back-end.
C++, Python, Go + Go-templates, Google Protobuf

Software skills

Programming languages: C++ (Googletest), Python (DS libraries: NumPy, SciPy, Catboost, Sklearn; Pytest), C, Go, Bash

Tools: Git, Unix, CMake, LaTeX

Other skills

Software engineer experience obtained by working on real projects in Yandex

Advanced algorithm and data structures knowledge, obtained at university courses and enhanced by participating in competitive programming contests and working as SWE

Teamwork skills developed in team programming competitions

Explanatory skills developed by working as a tutor and as a teacher's assistant in summer preparatory classes in school and university courses for pupils

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 Coursee 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 coursee 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