Sergey Kushneryuk

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Education

2015 – 2019 **Specialized Educational and Scientific Center of Ural Federal University**, *Physical-Mathematical class*, graduated with distinction.

2019 – present **Moscow Institute of Physics and Technology**, *Bachelor Degree in Applied Mathematics and Computer Science*, GPA: 8.73/10.0.

Extracurricular Activity

late 2020 – present **Competitive Programming Tutor**, *SPGuide*.
Tutor in Competitive Programming school, teach school students competitive programming (basic algorithms and data structures, C++ and Python languages).

2019-2020 school year **Regional stage of All-Russian School Olympiad in Informatics**, *MIPT*, Volunteer.
Help in organization and holding of the competition

Software skills

Programming languages: C++, Python, C, Bash, Assembly

Tools: CLion, Pycharm, Git, Linux, Flask, Googletest, LaTeX, CMake

Other skills

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 SESC

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

Projects

2020 **Type Trainer**, Project for Python Course and Technology of Programming Course.
Type-training game written with PyGame library to help children study type faster in the form of games. Code written with usage of Patterns studied on TechProg course

2020 **NFA to minimal DFA Converter**, Project for Formal Languages Course.
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. Formal Languages project is in work now (fall of 2020)

2020 **Encryptor and Decryptor of cyphers**, Project for Python Course.
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.
Mini-interpreter of esoteric programming language LOLCODE

Achievements

2019 **All-Russian Command School Students Olympiad in Informatics (VKOSHP)**.
70th place out 252 link

Expert on Codeforces, Rating: 1719 (End of October 2020).

Languages

Russian: Native Speaker

English: B2 Upper-Intermediate