

Maria Okorochkova

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EDUCATION

- Bachelor of Science in Applied Mathematics and Computer Science**
National Research ITMO University Sep. 2021 - Present
Relevant coursework: Algorithms and Data Structures, Discrete Mathematics, Calculus, Java, C, C++
- Bachelor of Science in Information Systems and Technologies**
National Research ITMO University Sep. 2020 - Aug. 2021
Relevant coursework: Algorithms and Data Structures, Discrete Mathematics, C, C++
- Student**
Correspondence School of Physics and Technology of MIPT Sep. 2018 - Jun. 2020
Relevant coursework: Mathematics, Informatics

SELECTED PROJECTS

- Simple Web App** Dec. 2022
Java **Vue.js** **REST** **Spring** **MariaDB**
Naive implementation of a simple web application having the [Codeforces](#) form.
[Backend](#) is implemented in Java using Spring framework. [Frontend](#) – in JS using Vue.js.
- Parser in Prolog** Jun. 2022
Prolog **Definite Clause Grammar** **Parsing**
Parsing and calculation of arithmetic expressions in Prolog using [DC-grammars](#).
- Combinatorial Parsers in Clojure** May 2022
Clojure **Functional Programming** **Parsing**
Parsing and calculation of arithmetic expressions in Clojure using [special operations](#).
- PNG to PNM** Apr. 2022
C **ZLIB** **LIBDEFLATE** **Decoding**
Decoding a PNG image into [PNM](#) for suitable libraries.
- Rubik's Cube** Jun. 2021
C++ **OOP** **GLUT** **Rubik's Cube Algorithm**
Implementation of a program simulating the assembly of a 3x3 Rubik's Cube
+ using application GUI Implementation (OpenGL Utility Toolkit).

ACHIEVEMENTS

Prize-winner,	Mathematical Olympiad 'Phystech' held by MIPT (2nd prize among 2000+ finalist)	2019 - 2020
Winner,	Mathematical Olympiad held by Financial University (top 25 among 580+ finalists)	2019 - 2020

PROGRAMMING SKILLS

Languages:	C++, Java.
Languages, familiar:	C, JavaScript, Clojure, Prolog, Python.
Frameworks & Tools:	Bash, Git, Spring, Vue.js, MariaDB.
Technologies:	AJAX, REST.

TEACHING EXPERIENCE

- Mentor**
ITMO University, Information Technologies and Programming Faculty Sep. 2021 - Present
Calculus **Training** **Teaching**
 - Mentor of **Mathematical analysis** for first-year students.

LANGUAGES

English, Upper-Intermediate;
French, Intermediate.