

**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:** Calculus, Algorithms and Data Structures, Discrete Mathematics, 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

- IMPLEMENTATION OF CODEFORCES'S CLONE** Dec. 2022  
[Java](#) [JavaScript](#) [Vue.js](#) [REST](#) [Spring](#) [MariaDB](#)  
Development of a web app similar to [Codeforces](#) with basic features:  
registration, identification, writing comments, publishing posts, storing data of each user.
- ARITHMETIC PARSER** Jun. 2022  
[Prolog](#) [Definite Clause Grammar](#) [Parsing](#)  
Parsing and calculation of arithmetic expressions in [Prolog](#) for developed [DC-grammars](#).
- COMBINATORIAL PARSERS** May 2022  
[Clojure](#) [Functional Programming](#) [Parsing](#)  
Development of a parser and calculations in Clojure using [special library](#).
- PNG TO PNM CONVERTER** Apr. 2022  
[C](#) [ZLIB](#) [LIBDEFLATE](#) [Decoding](#)  
Decoding a PNG image into [PNM](#) for [ZLIB](#) or [LIBDEFLATE](#).
- RUBIK'S CUBE GRAPHICAL USER INTERFACE** Jun. 2021  
[C++](#) [OOP](#) [GLUT](#)  
Implementation of a program simulating the assembly of a 3x3 Rubik's Cube  
+ using application GUI Implementation ([OpenGL Utility Toolkit](#)).

## ACHIEVEMENTS

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

## PROGRAMMING SKILLS

<b>Languages:</b>	C++, Java.
<b>Languages, familiar:</b>	C, JavaScript, Clojure, Prolog, <a href="#">Verilog</a> , Python.
<b>Frameworks &amp; Tools:</b>	Bash, Git, Spring, Vue.js, MariaDB.
<b>Technologies:</b>	AJAX, REST.

## TEACHING EXPERIENCE

- Mentor**  
*ITMO University, Information Technologies and Programming Faculty* Sep. 2021 - Present  
[Calculus](#) [Teaching](#)
  - Mentor of **Calculus** for first-year students.

## LANGUAGES

**English**, Upper-Intermediate;  
**French**, Intermediate.