

Maria Okorochkova

Email: okorochkova26@gmail.com

Telegram: [@maladetska](https://www.instagram.com/maladetska)

Mobile: +7(961)624-24-62

St. Petersburg, Russia

GitHub: [maladetska](#)

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

- TAPE TYPE DATA SORTER** Feb. 2023
C++ **OOP** **Iterator** **Memory work**
Tape (data structure) development and implementation of Tape Sorter.
- 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

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|----------------------|--|-------------|
| 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

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|--------------------------------|--|
| Languages: | C++, Java. |
| Languages, familiar: | C, JavaScript, Clojure, Prolog, Verilog, Python. |
| Frameworks & Tools: | Bash, Git, Spring, Vue.js, SQL. |
| Technologies: | 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.