Maria Okorochkova

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EDUCATION

St. Petersburg, Russia GitHub: maladetska

Sep. 2018 - Jun. 2020

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

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

C++ OOP GLUT

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

Sep. 2021 - Present

Jun. 2021

Programming Skills

Languages: C++, Java.

Languages, familiar: C, JavaScript, Clojure, Prolog, Verilog, Python.

Frameworks & Tools: Bash, Git, Spring, Vue.js, MariaDB.

Technologies: AJAX, REST.

Teaching Experience

Mentor

ITMO University, Information Technologies and Programming Faculty

Calculus Teaching

o Mentor of Calculus for first-year students.

LANGUAGES

English, Upper-Intermediate;

French, Intermediate.