

# Matvey Kolesov

COMPUTER SCIENCE · SOFTWARE ENGINEER

Saint Petersburg, Russia

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## Education

### ITMO University

September 2020 - June 2024

BACHELOR OF SCIENCE IN **APPLIED MATHEMATICS AND COMPUTER SCIENCE**

Saint Petersburg, Russia

Information Technologies and Programming Faculty, **Computer Technologies** Department

- **GPA:** 5 out of 5
- **Relevant coursework:** Algorithms and Data Structures, Discrete Math, Computer Architecture, Java, JavaScript, C++

## Projects

### Mathematical expressions

April 2021

PARSER

Saint Petersburg, Russia

- Wrote **JavaScript** program with a set of objects for representing and computing mathematical expressions, derivative computing and expression simplifying
- Wrote parser of expressions written in Reverse Polish notation
- Wrote expression parser in prefix / postfix notation with error handling

### Expression Parser

March 2021

PARSER

Saint Petersburg, Russia

- Wrote **Java** app for parsing and computing math expressions
- Used OOP for creating different operations and to reducing repeating parts of code
- Used polymorphism for implemented the ability to add various types of data in which computing math expressions will be made

### Converter from Markdown to Html markup

December 2020

PARSER

Saint Petersburg, Russia

- Wrote **Java** app for converting a Markdown (some subset) file to Html file

### MNK-game

November 2020

COMMAND-LINE **JAVA** APP

Saint Petersburg, Russia

- Create app for playing the MNK-game on a rectangular or rhombic board of arbitrary size
- Two players play - people or computer

## Achievements

### INTERNATIONAL

2020 **Finalist (2000+ participants)**, Innopolis Open Olympiad in Informatics

Kazan, Russia

### FEDERATION

2020 **Medalist (100+ participants)**, Russian National School Olympiad in Informatics (final stage)

Moscow, Russia

2020 **3rd place (500+ participants)**, Programming Olympiad "TechnoCup" (final stage)

Moscow, Russia

2020 **1st place (500+ participants)**, Siberian Open School Olympiad in Informatics (final stage)

Kazan, Russia

2020 **1st place (100+ participants)**, Open School Olympiad in Informatics (final stage)

Saint Petersburg, Russia

## Skills

**Programming Languages** Java, JavaScript, C++

**Frameworks & Tools** Git/GitHub