

# 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:** 99.5 out of 100
- **Relevant coursework:** Algorithms and Data Structures, Discrete Math, Java, C++, Web technologies, Operating systems

## Projects

### Network file-system

November 2021

LINUX KERNEL MODULE

Saint Petersburg, Russia

- Wrote Linux kernel module on **C** for file-system, which located on a remote server

### Linked List

June 2021

DATA STRUCTURE

Saint Petersburg, Russia

- Wrote **C++** header for linked list data structure with the same interface as in STL

### SO-COW-Vector

May 2021

DATA STRUCTURE

Saint Petersburg, Russia

- Wrote **C++** header for vector data structure with the same interface as in STL
- Implemented **Small Object** and **Copy On Write** optimizations

### Mathematical expressions Parser

April 2021

PARSER

Saint Petersburg, Russia

- Wrote **Clojure** app for parsing and computing math expressions
- Used combinatorial parser for parsing
- Expressions are converted to objects, which can evaluate them or calculate derive function

### Mathematical expressions Parser

March 2021

PARSER

Saint Petersburg, Russia

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

### 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

## 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, Clojure, C++, C, Rust, Assembler

**Frameworks & Tools** Git/GitHub, Docker, Spring, React, Vue