

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

Portable Executable Parser

December 2021

PARSER

Saint Petersburg, Russia

- Wrote **Rust** app for checking correctness of files in PE format and for extracting import/export table from it
- Used structures and traits to make correct and easy to use representation of PE format in code

Network file-system

November 2021

LINUX KERNEL MODULE

Saint Petersburg, Russia

- Wrote Linux kernel module in **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

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 Rust, C, C++, Assembler, Python, Java, Clojure

Frameworks & Tools Git/GitHub/GitLab, Docker, VirtualBox, Spring