

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 out of 100
- **Relevant coursework:** Translation methods, Parallel programming, Algorithms and Data Structures, OS

Work experience

OS Networking assistant engineer

July 2022 - present

HUAWEI

Saint Petersburg, Russia

Inventing new NAT-traversal solutions to establish a P2P connection between Internet users located behind NAT devices

Projects

Rust syntax highlighter

November 2022

PARSER

Saint Petersburg, Russia

- Wrote **Java** app which gets Rust source code and makes a HTML text with syntax highlighting
- Used **ANTLR** parser generator

C++ variables definition parser

October 2022

PARSER

Saint Petersburg, Russia

- Wrote **Rust** app for parsing LL(1) grammar of C++ variables definition
- Successfully parsed text is converted into syntax tree which is visualised via Graphviz utility

Portable Executable parser

December 2021

PARSER

Saint Petersburg, Russia

- Wrote **Rust** utility for reading executable files in PE format, which is able to check that file has PE format and extract import/export functions

Mathematical expressions AST Parser

April 2021

PARSER AST

Saint Petersburg, Russia

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

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