Ainur Ibatov

Saint Petersburg, Russia

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Education

Saint Petersburg State University	*Saint Petersburg, Russia*
Bachelor	*September 2019 - Expected May 2023*

- **Faculty of maths and computer science**, Department of modern programming
- **Relevant courses:** algorithms and data structures, C/C++, Kotlin and JVM, functional programming, linear algebra, abstract algebra, calculus, discrete math

Samsung IT School	*Ufa, Russia*
Graduated with honors	*September 2016 - May 2017*

Skills

Programming languages

- Strongest: C++
- Usage experience: C, Java and Kotlin, Haskell, Python, Julia

Algorithms and data structures

- Three years of experience in solving algorithm problems and implementing of data structures, Codeforces link

General

- Github, SVN, Latex

Projects

RTV redactor (team project)

Kotlin Android application, GitHub link

- Implemented most of the geometric algorithms (for example, intersection of line and circle), developed front-end (used canvas primitive)

Schreier–Sims algorithm

C++ console application, GitHub link

- Implemented the algorithm in computational group theory, which can find the order of a finite permutation group, check if group contains given permutation, list all contained items in polynomial time

Linear Algebra project

Kotlin console application, GitHub link

- Implemented basic matrix operations, iterative methods (e.g. Gauss–Seidel method), QR-decompositions (e.g. Householder transformation), QR-algorithm, graph isomorphism checker

Achievements

Olympiads in computer science and programming

- ICPC North-Western Russia Regional Contest: 30/142–*2020-2021*
- ICPC North-Western Russia Regional Contest: 26/112–*2019-2020*
- ITMO University olympiad for schoolchildren: Winner–*2018-2019*
- Olympiad for schoolchildren of St. Petersburg State University: Winner–*2018-2019*
- Moscow Olympiad for schoolchildren: Prizewinner–*2018-2019*
- ITMO University olympiad for schoolchildren: Winner–*2017-2018*