DENIS SHABANOV

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Education

Saint Petersburg State University   2021 — June 2022
Bachelor of Computer Science in Applied Mathematics and Computer Science

Jacobs University, Bremen   September 2022 — Expected 2024
Bachelor of Computer Science   *Second Year*

Skills & Relevant Coursework

Languages: C++ (courses Programming in C & C++), Kotlin (courses Object-Oriented Programming, Programming in Kotlin), Python
Developer Tools: IntelliJ IDEA, Git
Technologies: Linux, Databases & Web Services [*currently attending*]
Computer Science & Maths: Algorithms & Data Structures (courses ADS Part 1, Advanced ADS Part 1 [*currently attending*]), Calculus (Parts 1 & 2), Algebra (Parts 1 & 2))

Projects

Visualization Tool | *Kotlin, Apache Batik, Clikt*   October 2021
- A tool that renders SVG charts using data from external CSV file.
- I used Apache Batik library to work with SVGs as with java.awt.Graphics instances.

Key-Word Database | *Kotlin, kotlinx-serialization, Clikt*   October 2021
- A dbm-inspired key-word database management tool.
- Used kotlinx-serialization to read and write from JSON file.
- Clikt was used to design command-line interface.

Diff Tool | *Kotlin*   September 2021
- A simplified clone of an UNIX diff utility.
- Uses naive $O(n^2)$ longest common subsequence finding algorithm.
- Is able to produce output in normal (Linux-like) and unified (GitHub-like) modes.

C, C++ Homework | *C, C++*   Since November 2021
- Unfortunately, it's forbidden by the rules of the course to make homework solutions publicly accessible in the Internet. I may add you as a collaborator on the e-mail. .zip repo (in Russian)
- C homeworks: Makefile, implementation of some functions from cstring, mergesort implementation, intrusive list implementation. C++ homeworks: vector implementation, shared_ptr, C++ I/O, vector implementation.

- Most complex assignment in C: console utility that crops a rectangular segment of a BMP image and rotates it 90 degrees.
- Most complex assignment in C++: console utility that implements Huffman encoding and allows to compress all types of files.

Achievements

Participation in Russian Competitive Programming Contests   2019 – Spring 2021
- **High School Student Olympiad in Informatics and Programming (2021)**: 43rd place out of 378 participants
- **All-Siberian Olympiad in Informatics (2020)**: 77th place out of 540 participants
- **Saint Petersburg State University Olympiad in Informatics (2020)**: 17th place out of more than 300 participants