

DENIS SHABANOV

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Education

Saint Petersburg State University

09/2021 — 06/2022

Applied Mathematics and Computer Science B.Sc.

GPA: 3.603

Constructor University (Jacobs U.), Bremen

09/2022 — Expected 05/2024

Computer Science B.Sc.

GPA: 2.13 (German grade), 2.87 (4 point scale)

Skills

Languages: Kotlin, Java, Dart, C++, Python

Technologies: Linux, Git, Flask, PostgreSQL, MySQL, Flutter, Docker, Elasticsearch

Relevant Coursework: Algorithms & Data Structures, Object-Oriented Programming, Databases & Web Services

Experience

virtuetechn GmbH

July 2023 — Present

Student Developer

Bremen, Germany

- A small IT consulting company.
- Fixed bugs in the Dart/Flutter crossplatform mobile application.
- Set up monitoring of resources on production server with ELK stack.

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.

C, C++ Homework | *C, C++*

November 2021 — May 2021

- `.zip` repo (in Russian)
- C homeworks: `Makefile`, implementation of some functions from `cstring`, mergesort implementation, intrusive list implementation. C++ homeworks: `std::vector` implementation, `std::shared_ptr`, C++ I/O.
- 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