Malov **Timofey**

COMPUTER SCIENCE STUDENT

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Summary

Current second year student of Mathematical and Computer Science faculty of Saint-Petersburg University. Computer Science enthusiast, who either code and solve complex mathematical problems. Main programming languages are Kotlin and C++, but i am constantly learning new ones. Really enjoy functional paradigm.

Attended Courses and Projects

C++ programming language semester course   *Russia*

SPBU

- Two main homeworks: bmp-extractor and huffman archiver: `https://gitlab.com/Mell0r/cpp_cource_labs`

Kotlin programming language year course   *Russia*

SPBU

- Diff graphic utility: `https://github.com/Mell0r/Graphic-Diff`
- Basic key-value data base: `https://github.com/Mell0r/Basic-KVDB`
- Simple plugin support music player: `https://github.com/Mell0r/Plugin-support`
- Wikipedia parallel statistics calculation: `https://github.com/Mell0r/Wikipedia-Statistics`
- Graphic utility for getting commits info for github repository: `https://github.com/Mell0r/GitHub-Repository-Statistics`

Theoretical Informatics semester course   *Russia*

SPBU

- Regular languages, finite automatons, Turing machine
- Formal grammars and syntax analysis algorithms
- Basics of complex theory
- Simple calculation language implemented with ANTLR library: `https://github.com/Mell0r/SimpleCalculator`
- DFA, NFA simulator, minimizer and converter: `https://github.com/Mell0r/DFA_NFA_Simulator`

Computer architecture semester course   *Russia*

SPBU

- Simple CPU-Cache-Memory simulation model in Verilog with completion time calculation: `https://github.com/Mell0r/Simple-CPU-cache-memory-model`
- Parallel image thresholding otsu algorithm: `https://github.com/Mell0r/Parallel-otsu-algorithm`

Mathematical disciplines   *Russia*

SPBU

- Calculus
- Algebra
- Probability theory
- Discrete mathematics
- Mathematical logic

Algorithms and data structures year-and-half course   *Russia*

SPBU

- Graph algorithms(dfs, bfs, Dijkstra, articulation points search, ...)
- String algorithms(KMP, Z-function, suffix tree, ...)
- Data structures(linked list, segment tree, ...)
- Fast Fourier transform

Functional programming and Haskell semester cource   *Russia*

SPBU

- Theoretical functional computation model
- Simple type theory
- All programming on this cource was on Haskell on "Stepik" learning platform: we used lists, monads, folds, parsers and much more.

Individual projects   *Russia*

SPBU

- Command project: sport management system - graphic utility for sport competitions management: `https://github.com/Mell0r/sport-management-system-blackmagik`
- Discord bot for our Mathematical and Computer Science faculty - it is simple and handy helper for easy faculty server management: `https://github.com/spbu-math-cs/MCS_discord_bot`

Honors & Awards

DOMESTIC

2020	**Top 20 (1st grade diploma, approximately 400 participants),** SPBU Olympiad in Informatics	*Russia*
2021	**Top 20 (1st grade diploma, approximately 400 participants),** Innopolis Open Olympiad in Informatics	*Russia*
2021	**Top 10 (1st grade diploma, approximately 400 participants),** University-Academic Olympiad in programming in Ural	*Russia*
2021	**Top 20 (2st grade diploma, approximately 400 participants),** Olympiad "Lomonosov" in Informatics	*Russia*
2021	**Top 20 (1st grade diploma, approximately 400 participants),** Moscow olympiad in informatics for school students	*Russia*
2021	**Top 70 (2st grade diploma, approximately 400 participants),** SPBU Olympiad in Informatics	*Russia*
2021	**Top 80 (2st grade diploma, approximately 400 participants),** Individual olympiad in informatics and programming	*Russia*

Education

SPBU(Saint-Petersburg State University)
BACHELOR IN COMPUTER SCIENCE

Saint Petersburg, Russia
Sept. 2021 - Present

- Got a nominal St-Petersburg government scholarship for students on the first year of studying.