

Aleksei Lesnik

Software Engineer / Programmer

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Education

- 2019 – 2023 **Bachelor, Modern Programming in SPSU**, [link](#), Saint-Petersburg.
First year: C++ with Code Review, Algorithms, Calculus, Algebra, Discrete Math, UNIX
Second year: Kotlin, Haskell, Algorithms, Calculus, Linear Algebra, Computer architecture
- 2017 – 2019 **School**, Mathematics and Informatics class at SPSU.

GitHub and Projects

- Spring 2020 **Image analysis, circle finder**, 3 participants, [link: MapLap](#),
Image application is returning L^AT_EXcode. You can load a photo, scan or screenshot.
I made Algorithm. My tools are [Python & OpenCV](#)
- Summer 2020 **Image analysis, draw digitization**, [link: MapLap2.0](#),
(current) Highly Optimized Console Image application.
I made application with test cases and my own Hough Transform. My tools are [C++ & OpenCV](#)
- Summer 2020 **Mobile Game, Physics Tetris**, 2 participants, [link: Tetris Builder](#),
(current) A game based on tetris blocks, also blocks can fall and collide.
I made the Gameplay (Move Blocks and time management). My tool is [Godot Engine](#)

Summer and Winter Schools

- 2019 & 2018 **Summer Informatics Camp**, Algorithms and Data Structures.
- 2018 & 2017 **Summer School Olympiad Prep**, Olympiad Algorithms and Data Structures.
- 2016-2019 **ITMO Advanced Programming Section**, Algorithms and Data Structures.
Summary, binary search, DSU, MST, BST, vector geometric, graph algorithms, string algorithms, dynamic programming, quick sorting, hashing, FFT, Gauss algorithm.

Olympiads and Competitions

- 2017 **FIRST Tech Challenge Russia**, [FIRST FTC](#), [Inspire Award](#).
- 2018 **FIRST Tech Challenge Russia**, [FIRST FTC](#), [Design Award](#), [Winning Alliance Captain](#).
- 2018 **ITMO Olympiad in computer science**, [link](#), Third degree [diploma](#).
- 2019 **ITMO Olympiad in computer science**, [link](#), Third degree [diploma](#).
- 2019 **Moscow Olympiad in computer science**, [link](#), [First](#) degree [diploma](#).
- 2019 **SPSU Olympiad in computer science**, [First](#) degree [diploma](#).
- 2019 **Open Olympiad in Cognitive Technology Programming**, [First](#) degree [diploma](#).
- 2019 **Individual Olympiad in Computer Science**, [link](#), Third degree [diploma](#).

Technical skills

Languages C++, C, Python, Kotlin, Julia, L^AT_EX

Tools STL, GitHub, SVN, QT, OpenCV, Creo Parametric (3D modeling), Godot

Languages

English Intermediate