

Aleksei Lesnik

Software Engineer / Programmer

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Education

2019 – 2023 **Bachelor, Modern Programming in SPSU**, Saint-Petersburg.

First year: C++ with Code Review, Algorithms, Calculus, Algebra, Discrete Math, UNIX

Second year: Kotlin, Haskell, Algorithms, Calculus, Linear Algebra, Computer architecture

GitHub and Projects

Spring 2020 **MapLap**, *Circle and Line finder*, 3 participants,
MapLap is returning \LaTeX code. You can load a photo, scan or screenshot.
I developed Detector Algorithm. My tools were **Python & OpenCV**

Summer 2020 **MapLap 2.0**, *Ellipses and Line finder*,
(current) Highly Optimized Console Image application.
I made application with test cases and my own Hough Transform. My tools were **C++ & OpenCV**

Summer 2020 **Tetris Builder**, *Mobile Game, Physics Tetris*, 2 participants,
(current) A game based on tetris blocks, also blocks can fall and collide.
I implemented the Game Process. My tool was **C++ & Godot Engine**

Summer and Winter Coding Camps

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

Team competition in robotics.

2017 **Inspire Award out of 25 participants**, *FIRST Tech Challenge Russia*.

2018 **Design Award and Winning Alliance Captain out of 30 participants**, *FIRST FTC*.
Competitive programming results.

2018 **Top 100 out of 1600 participants**, *ITMO Olympiad in Computer Science*.

2019 **Top 160 out of 2900 participants**, *ITMO Olympiad in Computer Science*.

2019 **Top 11 out of 2000 participants**, *Moscow Olympiad in Computer Science*.

2019 **Top 15 out of 2000 participants**, *SPSU Olympiad in Computer Science*.

2019 **Top 17 out of 520 participants**, *Open Olympiad in Cognitive Technology Programming*.

2018 **Top 87 out of more than 1000 participants**, *Individual Olympiad in Computer Science*.

Technical skills

Languages C++, C, Python, Kotlin, Julia

Tools STL, GitHub, SVN, OpenCV, QT, Creo Parametric, Godot, \LaTeX

Languages

English Intermediate