

Aleksei Lesnik

Software Engineer / Programmer

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Education

- 2019 – 2023 **Bachelor, Modern Programming in SPSU**, [link](#), Saint-Petersburg, I was $\frac{15}{1295}$.
C++ with Code Review, Algorithms, Mathematical analysis, Algebra, Discrete Math, UNIX
- 2017 – 2019 **School**, Mathematics and Informatics class at SPSU.
Final Exams(Mathematics $\frac{99}{100}$, Informatics $\frac{97}{100}$)

GitHub and Projects

- Spring 2020 **Image analysis, circle finder**, 3 participants, [MapLap](#),
Image application returning \LaTeX code. You can load a photo, scan or screenshot.
I made Algorithm. My tools [Python](#) & [OpenCV](#)
- Summer 2020 **Image analysis, draw digitization**, [MapLap2.0](#),
Highly Optimized Console Image application. Optimization by 15 times.
I made all application with test cases and my own Hough Transform. My tools [C++](#) & [OpenCV](#)
- Summer 2020 **Mobile Game, Physics Tetris**, 2 participants, [Tetris Builder](#),
A game based on tetris blocks.
I made the Gameplay. My tools [Godot Engine](#) & [SQLite](#)

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.
Sum, Binsearch, DSU, MST, BST, vector geometric, graph algorithms, string algorithms.

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](#) $\frac{97}{458} \cdot \frac{458}{1633}$.
- 2019 **ITMO Olympiad in computer science**, [link](#), Third degree [diploma](#) $\frac{159}{900} \cdot \frac{900}{2932}$.
- 2019 **Moscow Olympiad in computer science**, [link](#), **First** degree [diploma](#) $\frac{11}{435} \cdot \frac{435}{2000+}$.
- 2019 **SPSU Olympiad in computer science**, **First** degree [diploma](#) $\frac{15}{258} \cdot \frac{258}{2000+}$.
- 2019 **Open Olympiad in Cognitive Technology Programming**, **First** degree [diploma](#) $\frac{17}{523}$.
- 2019 **Individual Olympiad in Computer Science**, [link](#), Third degree [diploma](#) $\frac{87}{339}$.

Technical skills

Languages C++, C, Python, Julia, \LaTeX

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

Languages

English Intermediate