

Aleksei Lesnik

Software Engineer & Research

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Education

2019 – 2023 **Bachelor, Modern Programming in SPSU**, Saint-Petersburg.
Courses: C, C++, Algorithms and Data Structures, Linear algebra, Calculus, Python, ML, DL, 3D CV, Heuristics, Mathematical Statistics, Numerical optimization, Convex function optimization, DB, Testing.

Experience

Current
16 month **Huawei, C++ & Python Data Compression Research**, Saint-Petersburg.
Worked on several algorithms - memory, speed and compression upgrades.
- For first project improved mem by 70%, speed by 40% and compression ratio by 2%.
- For second one improved speed by 20% and some NDA metric by around 10%.
- For third project improved performance by 5%.

3 month
in 2021 **Yandex, Python backend**, Saint-Petersburg.
- Created library for internal service, with test coverage 100%.
- Added service to service authorization, with test coverage 100%.
- Added 3 new scenario of user support, with test coverage 30%.

Projects on GitHub

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 ware **Python & OpenCV**

Spring 2021 **Rid Of Grid**, *Grid eraser with shadow removing*,
Erases grid from pictures of notes. Performs better than the top 3 online erasers.
My tools were **Python & OpenCV & Numpy & Matplotlib**

Spring 2021 **Warehouse Automation**, *Several robots moves boxes, 2 participants*,
It's a research project in order to find most fast and accurate algorithm.
My tools were **C++ & SFML**

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.

Olympiads and Competitions

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*.

Working and interested in

Languages Python, C++, C
Tools GitHub, STL, Numpy, Pandas, Matplotlib, OpenCV, Pytorch, Sklearn

Languages

English Upper Intermediate