

# ROBERT OGANYAN

Nizhniy Novgorod, Russian Federation

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## SUMMARY

I have recently graduated in software engineering and now I'm studying machine learning. I also used to do competitive programming in the past. I like to learn something new every day, am a hard-worker.

## EDUCATION

**Nizhny Novgorod State Lobachevsky University (NNSU)**

**Sep. 2018 – Aug. 2022**

*Bcs in Programming Engineering - GPA - 4.57*

*Nizhniy Novgorod, RU*

**Yandex School of Data Analysis (YSDA)**

**Sep. 2021 – present**

*Machine Learning Engineering - GPA - 4.17*

*Nizhniy Novgorod, RU*

*Advanced C++ 1&2, Algorithms 1&2, Machine learning 1&2*

## SKILLS

- Data Structures & Algorithms
- Competitive Programming
- Artificial Intelligence
- OOPS Concept

## PROJECTS

**Library of various binary search trees 📄** | C++, STL, OOP, Data Structures & Algo

**May 2020**

- Project for the University's competition of projects 2020
- My teammates and I implemented Cartesian tree, Red-black tree, AVL tree, Splay tree, Skip-list.
- We tested their productivity and did the research.

**Ray tracer** | C++, STL, OOP, Data Structures

**Oct. 2021**

- Project of YSDA. Due to its rules, I'm not allowed to publish the code to open access, so contact me.
- Just a classical ray tracer.
- Supports different render modes.
- Supports scene reading (.obj file parser).

**Jpeg decoder** | C++, STL, OOP, Data Structures

**Mar. 2022**

- Project of YSDA. Due to its rules, I'm not allowed to publish the code to open access, so contact me.
- Program decoding .jpg files.

**Research of quantitative characteristics of reductions in lambda calculus 📄** |

*C++ , STL, OOP, DataStructure*

**June 2022**

- Thesis work.
- Implemented multi-functional interpreter of lambda-calculus.
- Did the experiments on all possible lambda-terms and did the research.

## TECHNICAL SKILLS

**Main Programming Languages:** C++, Python.

**Developer Tools:** JetBrains Clion, JetBrains PyCharm, Jupyter Notebook.

**Technologies:** Linux (wsl), Git, LaTeX.

**Languages:** Russian Native, English Intermediate

## CERTIFICATIONS

**Specialization "The art of development in modern C++"** | by MIPT and Yandex

**Aug. 2021**

\* C++ Development Fundamentals: Red Belt

## PUBLICATIONS

**Analysis of normal forms in lambda calculus 📄**

**Jul. 2022**

- How many lambda-terms have a normal form? How do terms change as a result of beta-reduction? Let's explore some characteristics!

## ACHIEVEMENTS

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2nd place in the University Olympiad programming contest among beginners	Nov. 2019
Participation in the University's competition of projects	May 2020
3d degree diploma in Southern and Volga Russia Regional Contest (NERC)	Nov. 2020
Participation in ICPC semi-final (Northern Eurasia finals)	Dec. 2020