

# Nikita Ota

JAVA, C++ DEVELOPER

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*"Be the best at what you really like to do."*

## Summary

Ambitious Java, C++ Developer versed in following established procedures and working under little or no supervision. Offering technical expertise in application programming and development. Excellent team player with in-depth knowledge of development tools and languages, eager to contribute to team success through hard work, attention to detail.

## Honors & Awards

### INTERNATIONAL

2018 **Quarterfinalist**, ICPC 2018

*Saint Petersburg,  
Russia*

### DOMESTIC

2018 **Semifinalist**, All-Russian Math Olympic

*Nizhny Novgorod,  
Russia*

2018 **Semifinalist**, All-Russian Programming Olympic

*Nizhny Novgorod,  
Russia*

2017 **Finalist**, All-Russian Command Programming Olympic

*Saint Petersburg,  
Russia*

## Education

### Lyceum 40

HIGH SCHOOL DIPLOMA

*Nizhny Novgorod, Russia  
Sep. 2016 - Aug. 2018*

### ITMO University

BACHELOR OF SCIENCE: MATHEMATICS AND COMPUTER SCIENCE

*Saint Petersburg, Russia  
Sep. 2018 - Current*

## Projects

### Telegram Bot with user-search in VK

PYTHON, TELEGRAM API, VK API

- Telegram Bot with searching user friends and user photo functionality.
- [https://github.com/Mr-Donaldo/sis\\_winter\\_2016\\_bot](https://github.com/Mr-Donaldo/sis_winter_2016_bot)

*Moscow, Russia  
Jan. 2017*

### Big Integer implementation in Assembly

ASSEMBLY

- Big Integer basic arithmetic implemented in assembly language.
- <https://github.com/MrDonaldoWorking/assembly-tasks>

*Saint Petersburg, Russia  
Mar. 2019*

### Huffman encoder/decoder

C++

- Console utility with compress and decompress functionality using Huffman algorithm.
- <https://github.com/MrDonaldoWorking/Huffman-encoder-and-decoder>

*Saint Petersburg, Russia  
May. 2019*

### Video letters recognition

JAVA, OPENCV

- Application showing statistics of learned letters in every different frames in the video file.
- <https://github.com/MrDonaldoWorking/Yandex-Practice>

*Saint Petersburg, Russia  
Dec. 2020*

## Picture edition tool

Saint Petersburg, Russia

C++, PNM

May. 2020

- Basic rotations and mirror functionality.
- Drawing line with gamma correction and sRGB using Xiaolin Wu's line algorithm
- Picture dithering algorithms: ordered, random, Floyd-Steinberg, JN, Sierra-3, Atkinson, Halftone with sRGB and gamma correction.
- Colour space transformations: RGB / HSL / HSV / YCbCr.601 / YCbCr.709 / YCoCg / CMY.
- Auto brightness correction functionality.
- <https://github.com/MrDonaldoWorking/Computer-Graphics>

## Object classification visualizer

Saint Petersburg, Russia

PYTHON, DECISION TREE, ADABOOST

Nov. 2020

- Application shows steps of how program classifies objects with boosting of decision tree classifier.
- <https://github.com/MrDonaldoWorking/ML-tasks>

## Parser Generator

Saint Petersburg, Russia

JAVA

Feb. 2021

- Generates lexer and parser of grammar by checking if grammar is LL(1) and constructing FIRST and FOLLOW sets.
- <https://github.com/MrDonaldoWorking/Lab-Code/tree/master/MTLab/4>

# Programming Skills

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<b>Language</b>	Java, C++, Python, JavaScript, Clojure, Bash
<b>Knowledge</b>	Algorithms, Data Structures, Computer Architecture, Concurrent Computing, Machine Learning basics
<b>Technologies</b>	GTest, Git, $\LaTeX$ , JUnit, Vue.js, Spring, Sklearn, ANTLR