Nikita **Ota**

Java, C++ Developer

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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	*Nigniy Novgorod, Russia*
2018	**Semifinalist**, All-Russian Programming Olympic	*Nigniy Novgorod, Russia*
2017	**Finalist**, All-Russian Command Programming Olympic	*Saint Petersburg, Russia*

Education

Lyceum 40 — *Nigniy Novgorod, Russia*
High School Diploma — *Sep. 2016 - Aug. 2018*

ITMO University — *Saint Petersburg, Russia*
Bachelor of Science: Mathematics And Computer Science — *Sep. 2018 - Current*

Projects

Telegram Bot with user-search in VK — *Moscow, Russia*
Python, Telegram API, VK API — *Jan. 2017*
- Telegram Bot with searching user friends and user photo functionality.
- `https://github.com/Mr-Donaldo/sis_winter_2016_bot`

Big Integer implementation in Assembly — *Saint Petersburg, Russia*
Assembly — *Mar. 2019*
- Big Integer basic arithmetic implemented in assembly language.
- `https://github.com/MrDonaldoWorking/assembly-tasks`

Huffman encoder/decoder — *Saint Petersburg, Russia*
C++ — *May. 2019*
- Console utility with compress and decompress functionality using Huffman algorithm.
- `https://github.com/MrDonaldoWorking/Huffman-encoder-and-decoder`

Video letters recognition — *Saint Petersburg, Russia*
Java, OpenCV — *Dec. 2020*
- Application showing statistics of learned letters in every different frames in the video file.
- `https://github.com/MrDonaldoWorking/Practice`

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, JJN, 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`