

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.

Programming Skills

Language	Java 11, C++11, Python3, JavaScript, C#, Bash
Knowledge	Algorithms, Data Structures, Computer Architecture, Concurrent Computing, Machine Learning basics
Technologies	GTest, Git, \LaTeX , JUnit, Playwright, Mockito, React, Spring, Sklearn, ANTLR
Databases	PostgreSQL, MongoDB, SQLite

Work Experience

CT Laboratory

BIOINFORMATICS RESEARCHER

- Investigated the basics of bioinformatics
- Sequenation metagenomes through R technologies and InSilicoSeq
- Analyzed metagenomes with k-mers through KMC3 and Metafast

Saint-Petersburg, Russia

Jul. - Sep. 2021

Sitronics Group

SOFTWARE DEVELOPER

- Investigated filtering process with buffer
- Proceeded Kalman filtering experiments
- Researched Kolmogorov-Zurbenko filter applied to Quaternions

Saint-Petersburg, Russia

Sep. 2021 - Jan. 2022

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

Moscow, Russia

Jan. 2017

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

C++, PNM

- 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>

Saint Petersburg, Russia

May. 2020

Object classification visualizer

PYTHON, DECISION TREE, ADABOOST

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

Saint Petersburg, Russia

Nov. 2020

Parser Generator

JAVA

- 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>

Saint Petersburg, Russia

Feb. 2021

Full Stack Application

REACT, NODE.JS, PLAYWRIGHT, MOCKITO, JAVA 11, SPRING BOOT, POSTGRES SQL, DOCKER, GITHUB ACTION

- Anime site with authentication
- <https://github.com/MrDonaldoWorking/Anime-site>

Saint Petersburg, Russia

Jan. 2022

Noise Filtering for VR headset

C#, UNITY, .NET CORE

- Extrapolation when lost connection
- Filtering constant noises
- Filtering sudden noises
- <https://github.com/MrDonaldoWorking/Sitronics-Noise>

Saint Petersburg, Russia

May. 2022

Education

ITMO University

BACHELOR OF SCIENCE: MATHEMATICS AND COMPUTER SCIENCE

Saint Petersburg, Russia

2018 - 2022

Honors & Awards

ALL-RUSSIAN

- 2018 **Semifinalist**, All-Russian Math Olympic
- 2018 **Semifinalist**, All-Russian Programming Olympic
- 2017 **Finalist**, All-Russian Command Programming Olympic

Russia

Russia

Russia