Nikita **Ota**

JAVA, C++ DEVELOPER

☐ +7 (920) 040-62-25 | ✉ otanikita@gmail.com | ⌨ MrDonaldoWorking | ✈ Mr_Donaldo

Work Experience

VK LLC	*Saint-Petersburg, Russia*
SOFTWARE DEVELOPER OF DZEN - CONTENT AND NEWS PLATFORM	*Sep. 2023 - Current*

- **Database Migration & Optimization:** Successfully transferred critical YDB databases from Yandex to VK hosts with zero downtime, handling peak loads of **40,000 RPS**. Developed a custom data transfer and transfer check mechanism.
- **High-Performance Event Processing:** Managed a high-traffic event recording service, processing **4,000+ RPS** from multiple devices while ensuring reliability and scalability.
- **Content Growth Initiatives:** Led projects to attract media authors, implementing key features like **promoted article pins, comparison tables, and polls** to enhance engagement and direct publishing on the platform.
- **Unified Payment System:** Designed and built a **scalable payment service** from scratch, handling donations, premium, and pro monetization. Streamlined payment processing, reducing dependency to just two developers for maintenance.

Yandex LLC	*Saint-Petersburg, Russia*
SOFTWARE DEVELOPER OF YANDEX.DELIVERY AND YANGO.DELIVERY	*Jul. 2022 - Sep. 2023*

- **"Photofixation" Project Leadership:** Successfully designed and implemented a solution to reduce delivery errors by photographing parcels at pickup points, enabling couriers to correctly match shipments, and also reducing legal and financial risks for business partners.
- **Complex Batch Delivery Optimization:** Solved courier confusion in multi-stop routes (e.g., mixed A/B point sequences) by introducing visual verification. This innovation **saved 2M RUB/month** in losses immediately after launch.
- **Delivery Confirmation & Monitoring:** Managed all of "Proof of Delivery" services: Photofixation, Scanner, Custom Instructions, Sms Confirmation. This includes photo uploads, storage, and validation, while overseeing courier timers to ensure SLA compliance.

Sitronics Group	*Saint-Petersburg, Russia*
SOFTWARE DEVELOPER	*Sep. 2021 - Jan. 2022*

- `https://github.com/MrDonaldoWorking/Sitronics-Noise`
- Investigated filtering process with buffer and proceeded Kalman filtering experiments
- Researched Kolmogorov-Zurbenko filter applied to Quaternions

Projects

Picture edition tool	*Saint Petersburg, Russia*
C++11 NATIVE	*May. 2020*

- Rotations, mirror and auto brightness correction 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.
- `https://github.com/MrDonaldoWorking/Computer-Graphics`

Telegram Bots	*Moscow, Russia*
PYTHON, GO, TELEGRAM API, VK API	*Jan. 2017; Apr. 2023*

- Searching user friends photos: `https://github.com/Mr-Donaldo/sis_winter_2016_bot`
- Calendar and Notifications with privacy settings: `https://github.com/MrDonaldoWorking/calendar-bot`

Full Stack Application	*Saint Petersburg, Russia*
REACT, NODE.JS, PLAYWRIGHT, MOCKITO, JAVA 11, SPRING BOOT, POSTGRESQL, DOCKER, GITHUB ACTION	*Jan. 2022*

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

Intellij Idea Custom Language Plugin	*Saint Petersburg, Russia*
JAVA 11, GRADLE, INTELLIJ PLATFORM PLUGIN	*May 2021*

- Structural documents plugin with syntax highligiting and different colors
- `https://github.com/MrDonaldoPublic/Custom-language-Intellij-plugin`

Programming Skills

Language	Java 11, C++20, Python3, JavaScript, C#, Bash
Knowledge	Algorithms, Data Structures, Computer Architecture, Concurrent Computing, Machine Learning basics
Technologies	GTest, Pytest, Git, LaTeX, JUnit, Playwright, Mockito, React, Spring, Sklearn, ANTLR, userver, Kibana, Grafana
Databases	PostgreSQL, MongoDB, SQLite, YDB, ClickHouse