

Maria Okorochkova

Email: okorochkova26@gmail.com

Telegram: [@maladetska](https://www.instagram.com/maladetska)

Mobile: +7(961)624-24-62

St. Petersburg, Russia

GitHub: [maladetska](https://github.com/maladetska)

EDUCATION

- Bachelor of Science in Applied Mathematics and Computer Science**
National Research ITMO University Sep. 2021 - Present
Relevant coursework: Calculus, Algorithms and Data Structures, Discrete Mathematics, Java, C++
- Bachelor of Science in Information Systems and Technologies**
National Research ITMO University Sep. 2020 - Aug. 2021
Relevant coursework: Algorithms and Data Structures, Discrete Mathematics, C, C++
- Student**
Correspondence School of Physics and Technology of MIPT Sep. 2018 - Jun. 2020
Relevant coursework: Mathematics, Informatics

EXPERIENCE

- Software Engineer Intern**
Tinkoff · Tinkoff Origination Platform Jul. 2023 - Oct. 2023
Kotlin **Spring Boot** **Apache Kafka** **Camunda** **PostgreSQL**
 - Design and development of a push&prospects service for use of the Tinkoff's business analysts
 - Design and development a web application for **uploading, validating and verifying** documents, which is now used as the **internal scan-document tool**.
 - Writing integration and unit tests.
- Software Engineer Student**
Yandex Summer Backend School Jun. 2023 - Jul. 2023
C++ **Userver** **PostgreSQL** **Google Test** **Pytest** **CI/CD**
 - Summer school to gain knowledge about the backend of **distributed high-load** services.
 - The topics studied were: code architecture, backend basics, git, http api design, databases, multithreading, testing, load testing, devops, deployment, CI/CD, etc.
 - Solved practical assignments, code review

SELECTED PROJECTS

- IPv4 UDP broadcast chat** Jan. 2024
C++ **IPv4** **POSIX Threads** **Docker** **GNU Linux** **UDP**
Console application that exchanges text broadcast messages over a local network segment with copies running on other machines physically connected to one logical network segment.
- URL Shortener for Viplink** Jun. 2023
C++ **Userver** **PostgreSQL** **Docker Compose** **Pytest**
Rest API service for URL shortening with the ability to select a target path.
- Tape Type Data Sorter** Feb. 2023
C++ **OOP** **Memory work**
Console application for sorting large **Tape** (data structure) in external memory – development **Tape Sorter**.
- PNG To PNM Converter** Apr. 2022
C **ZLIB** **LIBDEFLATE** **Decoding**
Decoding a PNG image into **PNM** for **ZLIB** or **LIBDEFLATE**.

PROGRAMMING SKILLS

Languages: (experienced): C++, Kotlin/Java; (familiar): C, Swift, Go, JavaScript, Python.
Frameworks & Tools: STL, Bash, PostgreSQL, Git, Docker, Kubernetes, Userver, Grafana, Prometheus, Spring Boot.

ACHIEVEMENTS

Prize-winner, Mathematical Olympiad 'Phystech' held by MIPT (**2nd prize** among 2000+ finalist) 2020
Winner, Mathematical Olympiad held by Financial University (**top 25** among 580+ finalists) 2020

TEACHING EXPERIENCE

- Mentor of Calculus for first-year students**
ITMO University, Information Technologies and Programming Faculty Sep. 2021 - Sep. 2022