# Maria Okorochkova

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## 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` `DDD` `Kubernetes` `Apache Kafka` `PostgreSQL` `Spring Boot`
  - 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

- **Tape Type Data Sorter**  *Apr. 2024*
  `C++` `OOP` `Memory work`

  Console application for sorting large Tape (data structure) in external memory – development Tape Sorter.

- **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.

- **PNG To PNM Converter**  *Apr. 2022*
  `C` `ZLIB` `LIBDEFLATE` `Decoding`

  Decoding a PNG image into PNM for ZLIB or LIBDEFLATE.

## PROGRAMMING SKILLS

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

## ACHIEVEMENTS

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|---|---|---|
| **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*