

# 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** **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

- Tape Type Data Sorter** Feb. 2023  

**C++** **OOP** **Memory work**

Console application for sorting large **Tape** (data structure) in external memory – development **Tape Sorter**.
- Implementation Of Codeforces'S Clone** Dec. 2022  

**Java** **Spring Boot** **MariaDB** **REST** **JavaScript** **Vue.js**

Development of a web app similar to **Codeforces** with basic features: registration, identification, writing comments, publishing posts, storing data of each user.
- Arithmetic Parser** May 2022  

**Java** **OOP** **Parsing**

Parsing and calculation of arithmetic expressions.

## PROGRAMMING SKILLS

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

## 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