

# Mariia (Mary) Feofanova

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## EDUCATION

- **Moscow Institute of Physics and Technology [planned]** Moscow, Russia  
*Master's degree in Computer Science* Sept. 2020 - Aug. 2022
- **The Yandex School of Data Analysis** Moscow, Russia  
*Big Data Infrastructure* Sept. 2019 - Aug. 2021 (Present)
- **Moscow Institute of Physics and Technology** Moscow, Russia  
*Bachelor of Applied Mathematics and Computer Science* Sept. 2016 - Aug. 2020 (Present)
  - **Thesis:** Verification of synchronization primitives and concurrent data structures

## EXPERIENCE

- **Google LLC** London, UK  
*SWE Intern, Android App Compat team* July 2019 - Sept. 2019  
[GoLang](#) [Java](#) [Android](#) [C++](#) [Protobuf](#) [SQL](#)
  - Analyzed statistics about Android API usage and wrote design document about its utilization.
  - Integrated statistics into Android source code presubmit checker: now it warns if pull-request changes will break popular apps.
- **Moscow Institute of Physics and Technology** Moscow, Russia  
*Teaching Assistant, "Theory and Practice of Concurrent Computing" course* Feb. 2019 - Present  
[C++](#) [x86 Assembly](#)
  - Holding seminars, reviewing homework, improving test infrastructure.
- **JetBrains s.r.o.** Moscow, Russia  
*SWE Intern, RubyMine team* Jul. 2018 - Aug. 2018  
*SWE, RubyMine team* Oct. 2018 - Feb. 2019  
[Java](#) [Ruby](#) [Ruby on Rails](#)
  - Developed new intentions, inspections and refactoring options (e.g. [introduce parameter](#)) for RubyMine IDE.
  - Improved Rails-specific refactoring system: model fields, associations support.

## PROJECTS

- **[Model checker for concurrent programs](#) [Bachelor thesis]** Moscow, Russia  
[C++](#) Nov. 2019 - May 2020  
Wrote model checker that tests concurrent C++ programs. Key feature: code doesn't need to be translated to formal language (like e.g. TLA+ / +Cal). Verified my work on non-trivial examples: ABA bug inside lock-free cache for Yandex allocator (finds bug 16 times faster than +Cal) and bug inside implementation of Executors framework.
- **[InclickDB](#)** Moscow, Russia  
[GoLang](#) [Python](#) [Grafana](#) [Graphite](#) [ClickHouse](#) [InfluxDB](#) May 2019  
Investigated possible solutions to a problem of migrating from InclickDB to ClickHouse for a monitoring system with tagged metrics. Created tag support in existing solution by teaching myself Golang and contributing to open-source: [pull-request](#).

## ACHIEVEMENTS

- **[Photo Lab Live Challenge: Go Viral or Go Home - I place](#) [Hackathon]** Moscow, Russia  
[Python](#) [web.py](#) [Heroku](#) Nov. 2018  
Developed backend for photo filter that changes clothes style, having only 48 hours was able to quickly learn python framework and to deploy MVP.

## PROGRAMMING SKILLS

- **Languages:** C++, GoLang, Java, Python, TLA+, +Cal.
- **Technologies:** SQL, Git,  $\text{\LaTeX}$ , Docker.
- **Knowledge:** Algorithms, Data Structures, Concurrent Computing, Distributed Systems.