

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. 2022 (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

- **JetBrains** St. Petersburg, Russia (remote)
Research Intern, Programming Languages and Tools Lab July 2020 - Aug. 2020
C LLVM
 - Verifying concurrent C programs under weak memory model with [GenMC](#) model checker.
- **Google** 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** Moscow, Russia
SWE, RubyMine team Oct. 2018 - Feb. 2019
SWE Intern, RubyMine team Jul. 2018 - Aug. 2018
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 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 contributed 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, L^AT_EX, Docker.
- **Knowledge:** Algorithms, Data Structures, Concurrent Computing, Distributed Systems.