

Vasiliy Morkovkin

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Education

Moscow Institute of Physics and Technology

Sep 2016 - Jun 2020

Bachelor of Computer Science

4.4 / 5.0 GPA

Moscow Institute of Physics and Technology

Sep 2020 - Present

Master of Computer Science

Experience

Tinkoff.ru | Software Engineer & Team Lead

Since Feb 2018 (3.5 years)

- Developed services for travellers in functional-style Scala.
- Led a team, interviewed candidates, mentored new employees.
- Designed libraries, APIs and abstractions, reducing the integration friction.
- Transited from monolith to microservice Kubernetes-based architecture with the growth of the codebase.
- Promoted the use of asynchronous message-broker based architectures.
- Adopted Bazel build system with a fine-grained caching mono-repository approach. This led to an increase in the level of code reuse and reduced build times in several times.
- Popularized functional programming as a highly-composable software engineering tool.
- Encouraged usage of TLA⁺ model-checking for system analysis.

Teaching and OSS

- Co-author of a free introduction course to Scala with 12k enrollments.
- Speaker at Scala Russia Conference. "Rapid building of admin applications with Server-side Rendering in Scala".
- Author of an open-source library for testing concurrent data-structures in Scala.
- Co-author of an open-source Neovim plugin for TLA⁺ support.
- Lecturer at Tinkoff Fintech Scala School.

Programming skills

- *Primary*: Scala, Java, TLA⁺.
- *Pet-projects*: Rust, Python, C/C++, Lua.
- *Scripting/Reading*: Haskell, Go, JavaScript, Clojure, Lua, Shell.

Interests

- Database Internals: storage engines, indexing, data integrity mechanisms.
- Distributed Consensus: algorithms and systems based on them (Zookeeper, etcd).

- Distributed Fault-Tolerant Systems: Kafka, Cassandra, Spanner and Calvin-based databases.