

Vasiliy Morkovkin

morkovkin.vv@phystech.edu • susliko.dev • github.com/susliko

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 (4 years)

- Developed services for travellers in functional-style Scala.
- Led a team, held architecture design interviews, 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 via talks and library development.
- 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.
- Contributor of the PlusCal [tree-sitter grammar](#).
- Lecturer at Tinkoff Fintech Scala School.

Programming skills

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

Technical interests

- Distributed Fault-Tolerant Systems: Kafka, Cassandra, Spanner and Calvin-based databases.
- Developer tooling: IDE plugins, programming language grammars, etc.