

# Vasiliy Morkovkin

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**Tinkoff.ru** | Software Engineer

*Feb 2018 - May 2020 (2 years)*

- Developed services for travellers in FP-style Scala.
- Designed APIs and abstractions, reducing the integration friction.
- Transited from monolith to micro-service Kubernetes-based architecture with the growth of the codebase.
- Made choices of technological stack and data storages based on the characteristics of the problem to be solved.
- Promoted the use of asynchronous message-broker based architectures and moving towards the DDD approach.
- 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.
- Mentored new employees.

## Teaching and OSS

- Co-author of a free introduction [course to Scala](#) with approximately 8k enrollments.
- [Speaker](#) at Scala Russia Conference. The talk is about rapid building of admin-like applications with Server-side Rendering in Scala.
- Author of an open-source [library](#) for testing concurrent data-structures in Scala.
- Lecturer at Tinkoff Fintech Scala School.

## Programming skills

- *Good*: Scala, Java.
- *Average*: Rust, C/C++, Python, Shell.
- *Scripting/Reading*: Haskell, Go, JavaScript, Clojure, Lua.

## 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.

## Education

**Moscow Institute of Physics and Technology**

*Sep 2016 - June 2020 (expected)*

Bachelor of Applied Mathematics, Physics and Computer Science

4.4 / 5.0 GPA