

Igor Tovstopyat-Nelip

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Profile

JVM ecosystem. Multiple JVM languages and frameworks with a strong focus on functional programming. Scala as the language of choice on JVM.

Web, distributed and event-driven systems. Microservices. Data processing.

Relational and non-relational datastores.

Strong analytical and data skills.

Most recent titles and/or responsibilities: Lead Software Engineer, Staff Software Engineer, Application Architect (hands-on).

Skills

Primary languages: Scala, Clojure, Kotlin, Java. Other languages: Haskell, Rust, Python, Bash, etc., occasional Javascript.

App servers, frameworks and libraries: Typelevel stack (Cats, Cats Effect, Http4s, etc.), Lightbend stack (Play, Akka), Finagle, Ring (Clojure), Spark, Kafka, traditional Java servers, containers and frameworks (Jetty, Spring, JEE, etc.).

Datastores: Postgres, MySQL, Mongo, Redis, Oracle, other.

Cloud: AWS.

Tools and Infrastructure: SBT, Maven, Leiningen, Docker, Kubernetes, IntelliJ IDEA, Vim, occasional Emacs, Git, Linux, OS X.

Experience

Travel Syndication Technology, Staff software engineer.

Atlanta, September 2018 - current.

Integration of data feeds from multiple travel data providers with the goal to maximize online travel sales.

Design and implementation of micro-services cloud-based applications for travel data consumption and transformation as well as for web based sales.

Http4s, Play, MySQL, Mongo, Docker, Kubernetes, Kibana, AWS. Functional Scala.

Sunlight Payments, Staff software engineer.

Seattle (remotely), January 2018 - September 2018.

Bill Gates funded start-up aiming to bring transparency and control to the market of charitable foundations.

Design and implementation of a scaleable, distributed, cloud-based web application that controls the flow of charitable money between multiple organizations and accounts.

Play, Finagle, Postgres, Docker, AWS. Functional Scala with type-level programming (ADTs, Cats, Shapeless, etc.).

Care Logistics, Lead software engineer.

Atlanta, April 2008 - January 2018.

Designing and developing software to control and optimize logistics of patient care and operations

in hospitals ("Hospital OS"). Multiple, mostly web, applications.
Kotlin, Clojure, Scala, Java, Erlang.
Postgres, Oracle. ActiveMQ. Kafka.

Yahoo! Yahoo team lead at Sabre Technologies. (In partnership with Macquarium Intelligent Communications.) *Sabre Technologies, Dallas, May 2003 - November 2005.*

Worked with the Yahoo-Sabre team on design and development of the global agency portal.
Team lead for the integration of Frontier Airlines into Sabre GDS.
J2EE, Yahoo portal framework, Oracle. Integration with the Sabre mainframe TPF.

Macquarium Intelligent Communications, Senior software engineer.

Atlanta, November 2002 - April 2008.

Multiple projects for different clients using different languages and frameworks, mostly Java dominated.

Java, Perl, Python. MySql, Oracle. Yahoo portal.

Education

Moscow Institute of Physics and Technology. (Theoretical physics). Master of Science.
Postgraduate studies in the Russian Academy of Sciences.