

Ivan Tsukanov

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SKILLS

- Languages: Scala, Java, JavaScript, SQL, R-language, HTML
- Frameworks: Akka (actor, persistence, streams, http), Spray, Apache Spark (core, SQL, streaming), Spark JobServer, Hadoop, Apache Kafka, Slick, Quill, Play, jQuery
- Databases:
 - Relational: PostgreSQL, MySQL, Oracle, MS SQL
 - NoSQL: MongoDB, Apache Cassandra
 - Time series: KairosDB
- VCS: Git, SVN
- Build tools: sbt, maven
- CI: TeamCity, Jenkins, Hudson
- Infrastructure automation: Chef, docker, Kubernetes
- Cloud providers: GCP, AWS
- Application servers: Tomcat, Oracle WebLogic, IBM WebSphere
- Others: Grafana, Logstash, Kibana, Big Data, Distributed Systems, Anomaly Detection, Unit and Functional Testing, Functional Programming, Async Programming

EDUCATION

Novosibirsk State University (NSU)	Novosibirsk, Russia
<i>Master of Science (M.S.)</i>	2010
Physics Department	
Novosibirsk State University (NSU)	Novosibirsk, Russia
<i>Bachelor of Science</i>	2008
Physics Department	

EXPERIENCE

Telepado	Remotely
<i>Senior Backend Developer</i>	02/2017 – 08/2017
I worked on the application for the provision of paid consultations. The most interesting part is billing. I implemented parts for:	

- tracking the consultation duration
- checking that the consultation can be continued: all members have alive connections, there is enough money to pay, etc
- making charges after the consultation is over

2GIS

Novosibirsk, Russia

Scala Developer

11/2014 – 11/2016

The largest and most important projects in which I participated:

- Application to access and analyze data stored in Hadoop by using SQL-like queries. The app processes about 10TB of data per day. Based on SparkSQL.
- Application for validation of business statistics. There is a set of rules and business statistics which is formed as a result of user actions within the products on different platforms: Web, Android, iPhone. One day statistics consumed over 200GB memory in JVM. The application checks that the statistics meet the rules, generates a report about the quality of statistics. The app has over 26'000 functional tests. CI spends only 7 minutes to check them all.
- Anomaly detection system. It consists of three applications. The application for data collection. It reads data with Spark Streaming from Kafka and saves into KairosDB time series database on Cassandra. The application for searching anomalies. Based on Akka, Spray and an algorithm written in R-language. The third app regularly checks for anomalies in the latest data. When an anomaly is found it sends notifications.

In these projects my role was:

- Initial requirements gathering and formalization
- Decomposition into small tasks, project management in Jira
- Solving of tasks on development and support
- 95%+ of code is written by me (including 26'000 tests).

BARS GROUP

Novosibirsk, Russia

Java Developer / Senior Java Developer

07/2013 – 11/2014

Worked on the project for the Novosibirsk's government. The project was developed over a year in another company, then it was transferred to us for further development. At the beginning of the work, I was almost the first person of java developer team in this project. I had to understand how it works and how we can evolve it. The project consisted of about 300k rows of java code (saw it by Sonar) and lots of JSP. Thus, I have experience of support and evolve of a large amount of code which I have never seen before.

In the days when our team leader was missing, I was doing his work. I communicated with managers about new tasks, about priority and deadlines of current tasks. For deploying into production environment and operations with production was responsible another company. I communicated with them when it was necessary and solved tasks related with it.

Worked with: Java, Liferay, Tomcat, JSP, SOAP and Rest Services, Activiti Workflow Engine, MySQL.

Diasoft

Novosibirsk, Russia

Java Developer

12/2011 – 07/2013

Support and development company products from the banking sector. Sometimes our government required special reports from banks. Such kind of tasks was necessary to solve fast and meet deadlines. I understand what it means "strict deadline".

Worked with: Java EE, hibernate, maven, unit testing, different Application servers (Oracle WebLogic, IBM WebSphere, Tomcat), different databases (Oracle, MS SQL)

Algorithmic trading on Forex

Novosibirsk, Russia

I wrote trade robots on MQL4

09/2010 – 07/2011

CERTIFICATIONS

Functional Programming Principles in Scala Coursera 2014

Machine Learning

<https://www.coursera.org/account/accomplishments/certificate/4539H5J8HN5T>

PORTFOLIO

Testing trading strategies on historical data - <https://github.com/iatsukanov/stockcharts>

DEVELOPMENT CULTURE

I hope you agree with me that following is important:

- using feature branches to keep the master clean and always working
- using code reviews to share knowledge about the project and keep the implementation as simple as it possible
- using a CI for running tests and deploying via a one-click button
- writing not only unit tests but also functional tests to test the application from the outside

HOBBIES

I love sport and reading. Among my favorite books are "Surely You're Joking, Mr. Feynman!" by R. Feynman, some books from Carlos Castaneda and lots of Russian authors.