



# Alexey Zykov

computer science engineer

Date of birth: 07.07.1989  
Birthplace: Moscow, Russia  
Residence: St. Petersburg, Russia  
Nationality: Russian

## Contacts

Web: <https://alexov.it>  
E-mail: [mail@alexov.it](mailto:mail@alexov.it)  
Phone: +79052059831

## Spoken Languages

- Russian - native
- English - fluent
- Italian - fluent

15 years in software development. Now working in freelance. Interested in distributed multi-platform applications and data analysis. Worked with different technologies and tend to learn more.

## Studies

2010 - 2014 Master of Science	<b>Politecnico di Milano</b> <i>Department:</i> Computer Science Engineering <i>Specialization:</i> Data analysis	(Como, Italy)
2006 - 2011 5 years Specialist	<b>Moscow University of Radioengineering</b> <i>Department:</i> Computer Science Engineering <i>Specialization:</i> Digital electronics, computer systems and networks	(Moscow, Russia)
02.2016	<b>Lightbend certification: fast-track to Scala</b>	

## Occupation

11.2012 - 12.2013 Fixed term	<b>RSR Srl</b> ( <a href="http://www.rsr.it">www.rsr.it</a> ) <i>Company Activities:</i> Embedded systems development <i>Job Title:</i> Software engineer <i>Duties:</i> Development of firmware for microcontrollers and mobile prototypes for wireless communication	(Como, Italy)
04.2014 - 09.2015 Remote	<b>Totup</b> ( <a href="http://www.totup.com">www.totup.com</a> ) <i>Company Activities:</i> Web bookmaker (startup) <i>Job Title:</i> Senior web developer <i>Duties:</i> Back-end development in Java for Play/Akka server partially front-end in JavaScript	(remote)
12.2015 - 04.2018 Permanent	<b>Advanced Technology Solutions</b> ( <a href="http://www.atscom.it">www.atscom.it</a> ) <i>Company Activities:</i> Software development in banking systems <i>Job Title:</i> Software engineer <i>Duties:</i> Versatile developer involved in any new activity company does including web, mobile and big data.	(Milan, Italy)
04.2018 - current	<b>Freelance</b> <i>Duties:</i> Taking software projects on my own management, developing from scratch or interact with other freelancers	(remote)

## Skills

### Programming

Swift | Objective-C | Kotlin | Scala | Java | JavaScript | SQL | C

### Operation systems

Linux

### Databases

PostgreSQL | MongoDB | Redis | ORM

### Platforms and frameworks

iOS | Android | Apple Watch | Micro-Service Architecture | Akka | Apache Spark | Play framework | Node JS | React JS | Angular JS

**05.2020 - current      Top-5 music app in App Store****➔** Yandex.MediaServices (Russia)*Technologies used:* iOS, Objective-C, CI/CD for iOS apps, UI testing*Role:* Senior iOS developer, business unit lead. Participated a high-load mobile product with 25+ millions subscribers. Created new section of the app. (<http://music.yandex.ru>)**09.2019 - 05.2020      iOS app for staff training****➔** ServiceGuru (Russia)*Technologies used:* iOS, Objective-C*Role:* Lead developer for iOS platform. Solved performance issues of an old iOS app, renewed application architecture. (<https://apps.apple.com/us/app/serviceguru/id893089809>)**08.2019 - 08.2019      iOS app for karaoke contest and video broadcast streaming****➔** VoltMobi Labs (Russia)*Technologies used:* iOS, Swift*Role:* Created a karaoke contest platform for the national scale event. (<https://apps.apple.com/ru/app/день-гимна/id1476256219>)**03.2019 - 07.2019      Native mobile applications in advertising****➔** MobX Agency (Russia)*Technologies used:* iOS, Swift, Android, Kotlin, PHP, Linux*Role:* Created native mobile apps on my own for marketing agency both Android and iOS platforms. Set up In-App purchases with backend implementation. (<https://itunes.apple.com/us/app/astrostar-гороскоп-и-сонник/id1454339618>) (<https://play.google.com/store/apps/details?id=agency.mobx.astrostar>)**08.2018 - 03.2019      Cashier integrations for gambling platform****➔** InBet (Russia)*Technologies used:* Kotlin, Undertow Server, API integration*Role:* As a backend developer in a team of four integrated about 10 different payment systems from all over the world for existing web project.**04.2018 - 08.2018      Social network for bikers****➔** MotoTeamRussia*Technologies used:* Scala, Akka HTTP, PostgreSQL, Minio*Role:* As a backend developer in a team of two moved an existing project from a raw state to public production. Configured DevOps routines. (<http://mototeamrussia.com>)**04.2017 - 04.2018      Modern micro service backend for a national payment system****➔** SIA (Italy)*Technologies used:* Scala, Akka, Lightbend Telemetry, Elastic Search, Docker*Role:* In a small team designed micro service architecture based on Akka to port an existing legacy Java monolith. Then in a team of ten rewrote a code base from Java to Scala. Worked with Lightbend suite for Akka monitoring with Elastic Search on board.**11.2016 - 04.2017      Set of mobile applications for retail loyalty with computer vision****➔** SIA (Italy)*Technologies used:* Swift, iOS, Java, Android, Computer Vision*Role:* Developed a native iOS application based on defined API that uses camera for receipt recognition. Also did partial support for an Android platform. (<https://itunes.apple.com/it/app/ti-frutta/id634990347>)**04.2016 - 09.2016      Cluster application for multinational bank clients classification**

➔ UniCredit Business Integrated Solutions (Italy)

*Technologies used:* Scala, Apache Spark

*Role:* Peer scala Spark developer for well defined and documented machine learning problem. Was solving different problems of memory optimization and overall performance of cluster application.

12.2015 - 03.2016      **Web portal for fraud monitoring in bank environment**

➔ BPER group (Italy)

*Technologies used:* Scala, Play Framework, MongoDB, Reactive Mongo, JavaScript, jQuery

*Role:* Lead full stack web developer second after project lead. Designed and developed front-end and back-end of the service based on the documentation.

10.2015 - 11.2015      **Apple Watch / iPhone prototype for trading on stocks exchange**

➔ T.P.L. Electronics (Italy)

*Technologies used:* iOS, Objective-C

*Role:* Implemented whole project that was proof of work prototype. Did experiments with minimum gestures recognition on smartwatch.

04.2014 - 09.2015      **New generation web sport totalizator**

➔ Totup (Russia)

*Technologies used:* Play framework for Java, JavaScript, JQuery, Twitter Bootstrap

*Role:* Lead full stack web developer second after CTO in a team of 5 people. Also prepared tasks for Junior developers. Designed different services including player ratings system and fraud detection.

07.2013 - 02.2014      **Wearable system prototype for health monitoring**

➔ Master thesis in Politecnico di Milano (Italy)

*Technologies used:* TI CC2540 system on chip, C, iOS, Bluetooth Low Energy, MEAN stack

02.2013 - 12.2013      **IoT module for home automation**

➔ RSR Srl (Italy)

*Technologies used:* TI MSP430, C language, MQTT protocol, Bluetooth Low Energy, iOS

*Role:* Embedded system developer. Starting from ready PCB board adopted drivers of wireless Wi-Fi and Bluetooth Low Energy chips for TI MSP430 microcontroller. Then implemented a high level network protocol on top. After developed mobile prototype for iPhone to talk with the board.

08.2012 - 02.2013      **"Shortcut vision" augmented reality application prototype**

➔ Politecnico di Milano (Italy)

*Technologies used:* Computer vision, OpenCV, Android

*Role:* Invented an algorithm for image recognition of physical keyboard of Mac computers and implemented it with augmented reality system prototype on Android phone based on OpenCV library.

2009 - 2011      **Report system for university automation**

➔ Specialist thesis in Moscow University of Radioengineering (Russia)

*Technologies used:* Java SE, Java ME