

## Software Engineer

### Dmitriev Alexey

Mobile and Web Application Developer

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#### Summary:

I'm a Mobile and Web Application developer. My experience is 14 years of creating web-based applications and applications for mobile devices.

Deep knowledge in the most of common technology:

- Android (1.6 - 14 SDK, NDK 11r - JNI) Android Tv, Android Wear
- iOS (8-9)
- Web Service (J2EE and Node.Js)
  - J2EE - Struts, Facelets , Spring, Hibernate.
  - Node.Js - Express and others frameworks.
  - JavaScript - jQuery and other frameworks.
- Experience in work with cloud platforms: Google App Engine, Parse, Heroku, DigitalOcean.
- Experience in work with databases: SQLite, MS SQL, Oracle, MySQL, NeDB, GreenDao, ObjectBox, Realm, Room.
- Experience in work with analytics: Google Analytics, Fabric, others.
- Experience in work with Social API: FB, Instagram, Vk, Twitter and others.
- Experience in work with game-frameworks AndEngine and LibGDX.
- Experience in design and development of large-scale distributed systems, as well as experience in management of a small team (up to 5 people).
- Manager tools: Atlassian Jira, Trello, Redmine.
- Methodologies: Agile, SCRUM.

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<https://alex-d.cyclic.app/>

## Working Experience

### Project: NatureId (AIBY Inc)

**Duration:** 03.2021 - present day

**Position:** Software Engineer

**Description:** Plant and diseases plant identification.

**Programming Languages:** Kotlin

**Development tools:** AndroidStudio

**Technologies:** Android 8 and above; Retrofit, Kotlin Coroutines, Room, REST API, Koin(DI-multi module). MVVM - architecture.

### Project: NatureId (AIBY Inc)

**Duration:** 03.2021 - 09.2022

**Position:** Software Engineer

**Description:** Plant and diseases plant identification.

**Programming Languages:** Kotlin

**Development tools:** AndroidStudio

**Technologies:** Android 7 and above; Retrofit, Kotlin Coroutines, Room, REST API, Koin(DI-multi module). MVVM - architecture.

### Project: Jigsaw Puzzles Collection HD (Veraxen)

**Duration:** 02.2020 - 02.2021

**Position:** Software Engineer

**Description:** Popular anti-stress puzzles game.

**Programming Languages:** Kotlin

**Development tools:** AndroidStudio

**Technologies:** Android 6 and above; Retrofit, Kotlin Coroutines, Room, Toothpick(DI-multi module). MVVM - architecture.

### Project: Color by Number Oil Painting (Veraxen)

**Duration:** 02.2020 - 02.2021

**Position:** Software Engineer

**Description:** Popular anti-stress art activity game.

**Programming Languages:** Kotlin

**Development tools:** AndroidStudio

**Technologies:** Android 6 and above; Retrofit, Kotlin Coroutines, Room, Dagger2(DI-multi module). MVVM - architecture.

### Project: Talk to You / Teletype (Synesis)

**Duration:** 06.2019 - 02.2020

**Position:** Lead Software Engineer

**Description:** State-of-the-art messenger in your private cloud featuring private and public channels, media and file messages, rich widgets, and built-in chatbots.

**Programming Languages:** Kotlin, JavaScript

**Development tools:** AndroidStudio, IntelliJ IDEA

**Technologies:** Android 6 and above; Retrofit, Rx, Room, Toothpick(DI). MVVM/MVI - architecture. REST api, GAE.

### Project: ChatEG / Synesis-IM (Synesis)

**Duration:** 07.2018 - 05.2019

**Position:** Lead Software Engineer

**Description:** Messenger. Implemented all functions like in other messengers. Bestwidgets, and built-in chatbots. By European Games 2019. All Slack-chat features.

**Programming Languages:** Kotlin, Java, JavaScript

**Development tools:** AndroidStudio, IntelliJ IDEA

**Technologies:** Android 4.4 and above; Retrofit, Rx, ObjectBox, Dagger2. MVP - architecture. REST api, GAE.

### **Project: Xe-136 Logistics (Synesis)**

**Duration:** 07.2017 - 03.2018

**Position:** Lead Software Engineer

**Description:** Cloud platform for online ordering and logistics management via portable devices based on chat bots.

**Programming Languages:** Kotlin, Java, JavaScript

**Development tools:** AndroidStudio.

**Technologies:** Android 4.4 and above; Retrofit, Rx, ObjectBox, Dagger2. MVP - architecture. REST api, GAE.

### **Project: National Messenger gem4me.com (Synesis)**

**Duration:** 01.2017 - 06.2018

**Position:** Lead Software Engineer

**Description:** Messenger. Implemented all functions like in other messengers.

**Programming Languages:** Kotlin, Java, JavaScript

**Development tools:** AndroidStudio.

**Technologies:** Android 4.0 and above; Retrofit, Rx, GreenDao, Dagger2. MVP - architecture. REST api, GAE.

### **Project: Queues Belarus Customs (Vialyx)**

**Duration:** 02.2018 - 04.2018

**Position:** Lead Software Engineer

**Description:** Application for tracking the status of the queues of the border of the Republic of Belarus.

**Programming Languages:** Kotlin, Node.js

**Development tools:** AndroidStudio, IntelliJ IDEA.

**Technologies:** Android 4.0 and above; Retrofit, Rx, Room, Dagger2. ViPER - architecture. Express, REST api, DigitalOcean, telegramBotApi.

### **Project: Violation Detector-Pay (Vialyx)**

**Duration:** 12.2017 - 01.2018

**Position:** Lead Software Engineer

**Description:** Application for tracking the violations by car. Pay in one click.

**Programming Languages:** Kotlin, JavaScript

**Development tools:** AndroidStudio

**Technologies:** Android 4.2 and above; Retrofit, Rx, Realm. Dagger2. ViPER - architecture.

### **Project: TvGarant Launch STB (Promwad/TvGarant)**

**Duration:** 07.2016 - 12.2016

**Position:** Lead Software Engineer

**Description:** TvGarant Launch STB - IP-TV application television. European, Russia, Belarus.

**Programming Languages:** Java

**Development tools:** AndroidStudio

**Technologies:** Android 4.4 and above; AndroidTV 5.0 and above.

### **Project: WatchScanner (Promwad/USA personal customer)**

**Duration:** 11.2016 - 11.2016

**Position:** Lead Software Engineer

**Description:** Application-concept for personal customer. Functional: scan barQr codes, inserting tag-information in NFC module.

**Programming Languages:** Java

**Development tools:** AndroidStudio

**Technologies:** Android 4.4 and above; NFC. Virtual-COM port interface.

### **Project: Rekena (Promwad/Deutsche Telecom)**

**Duration:** 07.2016 - 08.2016

**Position:** Lead Software Engineer

**Description:** This application for the German operator DT(Deutsche Telekom). Application-concept for Smart Home devices.

**Programming Languages:** Java

**Development tools:** AndroidStudio

**Technologies:** Android 4.1 and above;

### **Project: FSP 2016 (Neklo - Freelance)**

**Duration:** 06.2016 - 06.2016

**Position:** Software Engineer

**Description:** This application for Art-picnic Freaky Summer Party 2016

**Programming Languages:** Java

**Development tools:** AndroidStudio

**Technologies:** Android 4.3 and above; Bluetooth 4.0 for data transmission by Beacons.

### **Project: Praktik (Promwad/RuSonar)**

**Duration:** 03.2016 – 06.2016

**Position:** Lead Software Engineer

**Description:** Application to check the bottom and fish finder of radiation and search fish.

**Programming Languages:** Java, C++, Objective-C

**Development tools:** AndroidStudio, XCode

**Technologies:** Android 4.3 and above; iOS 8 and above; Bluetooth 4.0 for data transmission

### **Project: Kinopoisk(Promwad/Yandex)**

**Duration:** 12.2015 – 02.2016

**Position:** Lead Software Engineer

**Description:** This Application for Russian website about cinematography.

**Programming Languages:** Java

**Development tools:** AndroidStudio

**Technologies:** Android 4.0 and above; google-play services, gradle, etc...

### **Project: YandexStick(Promwad/Yandex)**

**Duration:** 12.2015 – 02.2016

**Position:** Lead Software Engineer

**Description:** This Application for Russian website about cinematography.

**Programming Languages:** Java

**Development tools:** AndroidStudio

**Technologies:** Android 4.4, Player integration, web, js etc...

### **Project: Zive(Promwad/R-nox)**

**Duration:** 10.2015 – 11.2015

**Position:** Lead Software Engineer

**Description:** Application for communication with radiation monitor (R-Nox)

**Programming Languages:** Java

**Development tools:** AndroidStudio

**Technologies:** Android 4.0 and above; Bluetooth 2.0 for data transmission

### **Project: Lime(Promwad/Smartlabs)**

**Duration:** 06.2015 – 05.2016

**Position:** Lead Software Engineer

**Description:** Application for viewing media content.

**Programming Languages:** Java, C++

**Development tools:** AndroidStudio

**Technologies:** Android 4.0 and above; in-app billing api; google-play services; jni, gradle.

### **Project: ZALA/Moyo.TV/CaOn (variants:mobile/tablet, STB) (Promwad/Smartlabs/Beltelecom)**

**Duration:** 01.2015 – 05.2016

**Position:** Lead Software Engineer

**Description:** Application for viewing media content.

**Programming Languages:** Java, C++

**Development tools:** AndroidStudio

**Technologies:** Android 4.0 and above; support AndroidTV OS; in-app billing api; google-play services; jni, gradle.

### **Project: Zabava(Promwad/Smartlabs/Rostelecom)**

**Duration:** 11.2014 – 08.2015

**Position:** Lead Software Engineer

**Description:** Application for viewing media content.

**Programming Languages:** Java, C++

**Development tools:** Eclipse/AndroidStudio

**Technologies:** Android 4.0 and above; in-app billing api; google-play services; jni, gradle.

### **Project: EnergyPhone(Promwad)**

**Duration:** 08.2014 – 11.2014

**Position:** Lead Software Engineer

**Description:** Application to automating utility service.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 4.0 and above; in-app billing api; google-play services; yandex map api;

### **Project: Inferum(Promwad/Rofes-E01C)**

**Duration:** 04.2014 – 10.2014

**Position:** Lead Software Engineer

**Description:** Application to test the state of the human body. Only works in combination with the device Rofes-E01S.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 4.2 and above; USB, virtual com driver (CdcAcmSerialDriver)

### **Project: Wialon(Traktor/VeeTech/Std59 Tracking)(Promwad)**

**Duration:** 02.2014 – 04.2014

**Position:** Lead Software Engineer

**Description:** Application for tracking the location of vehicles moving company.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 4.0 and above; GPS, Google Maps Api.

### **Project: Elta glukometr(Promwad)**

**Duration:** 01.2014 – 02.2014

**Position:** Lead Software Engineer

**Description:** Application to check the level of glucose in the blood. Works only in combination with the device.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 4.2 and above; used audio jack for data transmission

### **Project: Sochi 2014 - Results (Olympic and Paralympic)**

**Duration:** 10.2013 – 01.2014

**Position:** Lead Software Engineer

**Description:** The official application Sochi 2014.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 2.3 – 4.4; Social Networks (Twitter, Facebook, VK.com), Foursquare, Flurry Analytics, AdFox, Youtube;

### **Project: Radiostation Client (Promwad/Altonika)**

**Duration:** 09.2013 – 10.2013

**Position:** Lead Software Engineer

**Description:** Application for managing analog and digital radio station.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 2.3 – 4.3; Bluetooth 2.0 for data transmission

### **Project: Lapka (Promwad)**

**Duration:** 08.2013 – 09.2013

**Position:** Lead Software Engineer

**Description:** App for measuring radiation. Works only in combination with the device.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 4.1 – 4.3; Google Map api 2.0; used audio jack for data transmission

### **Project: Formulae Helper (Freelance)**

**Duration:** 07.2013 – 08.2013

**Position:** Developer

**Description:** Handbook of Mathematical Formulas.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 2.3 – 4.3; HTML, CSS

### **Project: Google Contacts Widget and Samsung Style Contacts Widget (Freelance)**

**Duration:** 06.2013

**Position:** Developer

**Description:** Contacts Widget.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 4.0 – 4.3;

### **Project: Tallink & Silja Line (Promvad/GenerationP)**

**Duration:** 09.2012 – 07.2013(2 iteration)

**Position:** Senior Java(J2EE)/Android Developer

**Description:** App for search travel.

**Programming Languages:** Java

**Development tools:** Eclipse, JIDEA

**Technologies:** Android 2.2 – 4.2; DB:SQLite; ORMLite, GoogleAnalytics, Robolectric; J2EE: Hibernate, SpringMVC, REST

### **Project: GIM Android (v1, v2) (Freelance)**

**Duration:** 01.2013 – 06.2014

**Position:** Developer

**Description:** App for audit retail spaces.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 2.3 – 4.4; Dropbox Api, FTP

### **Project: Safe Hide (Promwad)**

**Duration:** 07.2012 – 07.2012

**Position:** Senior Java/Android Developer

**Description:** Utile application. Save and hide phone numbers, sms, photo, video.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 2.2 – 2.3; DB:SQLite;

### **Project: Safe Store (Promwad)**

**Duration:** 05.2012 – 07.2012

**Position:** Senior Java/Android Developer

**Description:** Utile application. Save and hide files.

**Programming Languages:** Java

**Development tools:** Eclipse

**Technologies:** Android 2.3 – 4.0; DB:SQLite;

### **Project: File Manager (Promwad)**

**Duration:** 03.2012 – 05.2012

**Position:** Senior Java/Android Developer  
**Description:** Utile application.  
**Programming Languages:** Java  
**Development tools:** Eclipse  
**Technologies:** Android 2.3 – 4.0; DB:SQLite; Dropbox API for Android, JavaMail API, Application Crash Report API for Android, JCIFS for Java, FTP API for Java

### **Project: Bubbles (Promwad)**

**Duration:** 03.2012 – 05.2012  
**Position:** Senior Java/Android Developer  
**Description:** Game application.  
**Programming Languages:** Java  
**Development tools:** Eclipse  
**Technologies:** Android 2.3 – 4.0; android framework – AndEngine 2.0, game API – Nindja

### **Project: Shturmann POI(My.POI) (Promwad)**

**Duration:** 09.2011 – 02.2012  
**Position:** Senior Java/Android Developer  
**Description:** Geo targeting application.  
**Programming Languages:** Java, C, C++  
**Development tools:** Eclipse  
**Technologies:** Android 2.1 – 2.3; TCP - protocol; DB:SQLite; JNI, NDK, Google Maps API; AdMob Api;

### **Project: Safe Backup (Promwad)**

**Duration:** 02.2011 – 08.2011  
**Position:** Senior Java/Android Developer  
**Description:** Application for backup user data.  
**Programming Languages:** Java  
**Development tools:** Eclipse  
**Technologies:** Android 2.2 – 2.3; DB:SQLite; Dropbox API for Android, JavaMail API, Application Crash Report API for Android, JCIFS for Java, FTP API for Java

### **Project: Dynamic UI (Promwad)**

**Duration:** 02.2011 – 09.2012  
**Position:** Senior Java/Android Developer  
**Description:** Banking application.  
**Programming Languages:** Java  
**Development tools:** Eclipse  
**Technologies:** Android 2.2 – 2.3; GAE; Web-service; DB:SQLite; formats message: XML, SOAP;

### **Project: Webhunter (Logic-Way)**

**Duration:** 08.2010 – 01.2011  
**Position:** Senior Java/Android Developer  
**Description:** Client-Server Application - allows you to view images.  
**Programming Languages:** Java, C++  
**Development tools:** Idea, Eclipse  
**Technologies:** Android 1.5 – 2.3; Web-service: Apache AXIS (SOAP); DB: MySQL, SQLite;

### **Project: Flexite BPMS, DMS, Services (Logic-Way)**

**Duration:** 02.2009 – 02.2011



**Position:** Senior Java Developer

**Description:** all information – [http://flexite.com/produkter/rodukter\\_eng.asp](http://flexite.com/produkter/rodukter_eng.asp)

flexiteBPMS is the most flexible platform for deviationhandling within Business Process Management (BPM) on the market. The system has over 150000 licensed users and is created with guidance of words like simplicity, flexibility, integratable, comprehensive, self instructive and cost effective. flexiteBPMS is made to completely automate those of a companies processes which includes gathering and management of information.

**Programming Languages:** Java, C++, JavaScript

**Development tools:** Idea

**Technologies:** Server: Tomcat, Weblogic; Java( JDBC, Spring, JSP, JSF, EJB, Axis); C++(Service); JS(JQuery, AJAX); DB(Oracle, MS SQL);

### **Project: Documents-Archive (Logic-Way)**

**Duration:** 03.2009 - 09.2009

**Position:** Java Developer

**Description:** Database for documents.

**Programming Languages:** Java, JavaScript

**Development tools:** Idea

**Technologies:** EJB, JNDI, JDBC, JUnit, Swing, Spring, Hibernate, Oracle WebServices, Maven 1, xDoclet, XML; SQL, PL/SQL; Oracle; OAS, OC4J; ErWin;

### **Project: Automatic system of testing (EPAM Systems)**

**Duration:** 01.2008 – 01.2009

**Position:** Java Juniour Developer

**Description:** Automatic system of testing (similar [www.brainbench.com](http://www.brainbench.com) ).

**Programming Languages:** Java, JavaScript

**Development tools:** Eclipse

**Technologies:**

Database: Oracle.

Frameworks: Hibernate, Spring, JavaServer Faces JSF.

JS: JQuery

Source Control Systems: SVN.