

# Miloš Vasić, Software engineer

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**Locations:**

Belgrade, Serbia

*Moscow (and Dubna), Russian Federation*

**Code:**

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GitHub: <https://github.com/milos85vasic>

**Networks:**

Telegram: +381 69 25 35 718

Milos Vasic Telegram – Official: <https://t.me/milosvasic>

HelixTrack Telegram: <https://t.me/helixtrack>

HelixTrack Development Telegram: <https://t.me/helixtrackdev>

VK: <https://vk.com/milos.vasic>

Linkedin: <https://www.linkedin.com/in/милош-васић-53778682/>

TenChat: <https://tenchat.ru/milosvasic>

Xing: [https://www.xing.com/profile/Milos\\_Vasic4/cv](https://www.xing.com/profile/Milos_Vasic4/cv)

Website: <https://www.milosvasic.ru>

## Profile

Highly-skilled software engineer bringing years in software design, development, and integration. Advanced knowledge of Android, Java, Kotlin and C++. Experienced in the full project life cycle from design to implementation to integration. Author of programming books and open-source enthusiast.

## Education

- Bachelor of Science: Informatics and Computing, 2008. University Singidunum, Belgrade (Serbia)

- M.Sc: Contemporary Information Technologies, 2014. University Singidunum, Belgrade (Serbia)

## Main technology stack

Android, Kotlin, Java, Sqlite, Postgres, Gradle, Maven, C++, Cmake, React Native, TypeScript, JavaScript, Flutter, Dart, Swift, iOS, Docker, Kubernetes, Git, GitHub, GitFlic.

### 3<sup>rd</sup> party components:

Retrofit, OkHttp, Hawk, Firebase, etc.

## Work history

### Red Elf

#### Location:

Belgrade, Serbia

#### Company website:

<https://www.red-elf.com>

<https://github.com/red-elf>

#### Time period:

- current working position, since 04/2020

#### Positions:

Owner, Software engineer, Project manager

#### Responsibilities:

Managing the development and actively contributing to development cycles for company clients and company projects:

- <https://github.com/Helix-Track>

- <https://github.com/Server-Factory>

#### Technologies:

Android, iOS, React Native, Kotlin, Java, Swift, C++, CMake, QT, TypeScript, JavaScript.

#### Team:

Work with my mobile development team for various clients:

- 1 Android senior
- 1 iOS senior
- 1 Android medior
- 1 QA senior
- 1 QA medior

#### Achievements:

- Complete development of the whole secure messaging solution SIP +

tunneling.

- Development of the mobile email client based on the raw SMTP + IMAP. Various heavy optimizations to support customers with the tens of thousands of messages. IMAP messages paginated fetching support.

### **Non-mobile development (open-source projects):**

- Helix-Track, implementation the SQL to code utility – generates the source code models based on the SQL definition. The system architecture (the data layer, scaling, infrastructure, etc.)

<https://www.helixtrack.ru>

<https://github.com/Helix-Track>

- Mail Server Factory (Server Factory project), the “code to infrastructure” solution:

<https://mailserverfactory.ru>

<https://github.com/Server-Factory/Mail-Server-Factory>

<https://github.com/Server-Factory>

### **Mobile development:**

#### **Gelato**

#### **Location:**

Fully remote client

Complete maintenance and work on the new implementations on the existing project based on the React Native technology. Binding the native Android and iOS libraries for the final use under the React Native code-base.

#### **Client's website:**

<https://www.optimalprint.com/>

#### **Time period:**

- from 07/2022 until 07/2023,

#### **Positions:**

Mobile software engineering, React Native

#### **Responsibilities:**

Managing the development and actively contributing the development on the React Native framework based product.

#### **Technologies:**

Android, iOS, React Native, TypeScript, JavaScript, Kotlin, Java, Swift.

## TN-TECH

**Location:**

Novi Sad, Serbia (part-time, fully remote)

**Company website:**

<http://www.tn-tech.co.rs/>

**Time period:**

- current working position, since 03/2017

**Position:**

Head of research and mobile development

**Responsibilities:**

Overseeing all mobile development as well as leading the company's research division to improve and optimize cross-platform development and integration with AI and ML tools and libraries.

**Technology:**

Java, Kotlin, QT, QML, C++, Python

**Team:**

- 1 Android senior
- 1 iOS senior
- 1 QA senior
- 1 C++ senior

**Achievements:**

- Active development of the native Android and the cross-platform QT framework software
- Management of the mobile and QA teams

**Projects:**

- SekurMessenger, software for enterprise secure messaging and conferencing
- SekurSuite, secure and private document storage and sharing in Switzerland
- SekurMail, secure mail client for the Sekur network users

<http://www.sekur.ch>

- Muwasalati, It is a Code of Conduct mobile App, owned and monitored by the Land Transport Regulatory Commission LTRC. It aims to collect data from the App users on violation of conduct on the public transport and its facilities that could be caused by passengers, operators, and employees of the public transport, aiming at improving the quality of the public transport services in Jordan.

<https://play.google.com/store/apps/details?id=com.muwasalati.jo>

- BusRide platform: Design, implementation, and maintenance of apps for parents and bus drivers for BusRide collaboration platform between parents, school bus drivers, and school management. Both applications (parent and driver's apps) are developed in Kotlin with Android SDK.

## **Harness.io**

### **Location:**

Belgrade, Serbia

### **Company website:**

<http://harness.io/>

### **Time period:**

- from 05/2021 until 07/2022

### **Position:**

Staff software engineer

### **Responsibilities:**

Managing and overseeing the SDKs development on the Feature Flags project.

### **Technologies:**

Technologies for 12 different SDKs. Some of them are: Java, Kotlin, Swift, C#, Ruby, etc.

### **Team:**

- 1 mobile android senior
- 3 GoLang seniors
- 1 .net senior
- 3 Java seniors
- 3 JavaScript / TypeScript seniors
- 3-5 medior developers for additional development / maintenance work
- 1 outsources team for the .net development

### **Achievements:**

- Active development work on the Harness "Feature Flags" mobile SDKs (Android, iOS, Flutter, React Native)
- Binding (wrapping) Android and iOS SDK codebase for use in Flutter and React Native SDKs
- Active development work on the Harness "Feature Flags" Java SDK
- Harness "Feature Flags" Ruby SDK
- Active development work on the Harness "Feature Flags" .net SDK
- Active development work on the core Harness platform (integration of the Feature Flag SDK into the platform)

## Enreach

**Location:**

Belgrade, Serbia

**Company website:**

<http://enreach.com/>

**Time period:**

- from 02/2020 until 05/2021

**Position:**

Lead software engineer for Android platform.

**Responsibilities:**

Influencing and overseeing Android development on main company projects:

- Coligo Mobile, software for enterprise secured messaging and conferencing:

<https://play.google.com/store/apps/details?id=io.summa.coligo.softphone>

- UMC, Unified Mobile Client (currently under development)

**Technologies:**

Java, Kotlin, C++

**Team:**

- 2 Android seniors
- 2 Android mediors
- 2 iOS seniors
- 1 iOS junior
- 3 QA seniors

**Achievements:**

- Work on several messaging solutions with following challenges: websockets communication, real-time responsive UI, managing the call states, whole database stack (Sqlite), parallel background processing (event driven), Binding the C++ libraries for use in Android (JNI) and iOS.

## Leica Geosystems

**Location:**

Heerbrugg, Switzerland

**Company website:**

<https://leica-geosystems.com/>

**Time period:**

from 05/2019 until 02/2020

**Position:**

Senior software engineer for Android and iOS

**Responsibilities:**

Developing mobile software for Leica's signature 3D scanners. Optimizing and resolving complex software problems in order to achieve cutting edge performance.

**Team:**

- 5 Android seniors
- 3 iOS seniors
- 3 C++ seniors
- 3 medior developers for additional development support
- 3 QA seniors

**Achievements:**

- Development of the real-time responsive UI connected to the 3D scanner device's event bus
- Extending the existing C++ codebase and sharing it between the Android and iOS platform
- Work on the Android and iOS platforms both (development of features on both platforms side by side)
- Development of the communication layer for the interaction with 3D scanners

**Technologies:**

Java, Kotlin, C++, Swift, Python

**Project:**

- **Leica Cyclone Field 360**, as part of the Leica Geosystems Reality Capture Solution, the Leica Cyclone FIELD 360 app links the 3D data acquisition in the field with the RTC360 laser scanner or with the BLK360 imaging laser scanner and data registration with Leica Cyclone REGISTER 360 post-processing office software.

<https://play.google.com/store/apps/details?id=com.leicageosystems.cyclone.field360>

**Robert Bosch**

**Location:**

Belgrade, Serbia

**Company website:**

<https://www.bosch.rs/>

**Time period:**

from 04/2016 until 01/2018

**Position:**

Lead Android software engineer on SDK for Connected Vehicles project

**Technologies:**

Java, Kotlin, C++

**Team:**

- 2 Android seniors
- 2 Android mediors
- 2 Android juniors
- 3 iOS seniors
- 2 QA seniors
- 2 QA juniors
- 3-5 students

**Achievements:**

- The whole Android SDK development: core, communication layer, persistence layer
- Parallel processing of signals data from OBD2 and persisting to database layer (SQLite)
- Development of processing strategies that can be applied through the SDK configuration
- Bluetooth stack communication.

**Project:**

- Connected Vehicles SDK: Android SDK for the car industry used by very respectful clients. Connected Vehicles SDK is an Android library written in Java and Kotlin with the purpose of establishing connectivity between the car's OBD2 and mobile devices.

**Deploy Inc.****Location:**

Belgrade, Serbia

**Company website:**

<https://www.deployinc.com/>

**Time period:**

from 09/2014 until 04/2016

**Position:**

Senior software engineer & Team leader

**Team:**



- 5 Android seniors
- 5 Android mediors
- 3-5 Android juniors
- 5 QA seniors
- 3 QA mediors

**Achievements:**

- Development of the device and power management
- Infra red communication stack development (regular and IR relays)
- Integration of the support for various hardware (TVs, STBs, Spundbars, etc.) and providers (cable providers, such as Dish Hopper, Time Warner Cable, etc.)
- Work on the persistence layer (SQLite) and content providers implementation.

**Technologies:**

Java, Android, Android OS

**Project:**

- Ray Super Remote (now owned by Amazon): <http://www.ray.co>.

**Responsibilities:**

- Led a group of several engineers in designing and development of Android-based software solutions.
- One of the main developers on Device and Power Management for the device's core functionality.
- Worked on various enhancements for inclusion in future code releases and patches.
- Collaborated with developers and performance engineers to enhance supportability and identify performance bottlenecks.
- Identified and suggested new technologies and tools for enhancing product value and increasing team productivity.

## Youngculture

**Location:**

Belgrade, Serbia

**Position:**

Lead software engineer for Android platform

**Time period:**

from 03/2013 until 09/2014

**Technologies:**

Java, Android

## Tehnicom Solutions

**Location:**

Belgrade, Serbia

**Position:**

Lead Web software engineer & Android software engineer

**Time period:**

from 10/2010 until 03/2013

**Technologies:**

PHP, CakePHP, Java, Android, C++

## Author work

- Fundamental Kotlin: revised (September 6, 2022.)
- Fundamental Kotlin, Second Edition (2018.)
- Fundamental Kotlin (2016.)

<http://www.fundamental-kotlin.com/>

- Mastering Android Development with Kotlin (2017.)

<https://www.packtpub.com/application-development/mastering-android-development-kotlin>

- Building Applications with Spring 5 and Kotlin (2018.)

<https://www.packtpub.com/application-development/building-applications-spring-5-and-kotlin>