

# Vsevolod Ganin



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## EXPERIENCE

### **Yandex**, Senior Android Developer

Feb 2016–Present · Moscow, Russia

Developed several mobile maps & navigation applications, participated in areas such as UI, infrastructure, system design, and auto-testing.

#### Yandex Maps

- Top 1st free app in Google Play in “Maps & Navigation” category in Russia with DAU > 9M, MAU > 60M, and an average score of 4.5
- Led v-team developing bookmarks sharing feature, managing people across all the stack including back-end, Android, iOS, and Multiplatform Core, supervising results, and giving feedback to the management
- Developed internal auto-testing framework based on Kotlin Multiplatform, Espresso and XCTest. Developed multiplatform core, also developed special JUnit 4 runner for Android part of the framework
- Developed various features with separate APIs including Kotlin / Multiplatform core, Android part, and sometimes iOS part using Objective-C and Swift languages (if the part was easy enough)
- Used technologies
  - Android SDK 21-33
  - Java, Kotlin / Multiplatform, Objective-C, Swift, C++ 11-17
  - Dagger 2, Kinzhal
  - RxJava, Kotlin Coroutines
  - Redux, MVP

#### Yandex Metro

- Top 9th free app in Google Play in “Maps & Navigation” category in Russia with an average score of 4.7
- Developed a new version of the app from scratch with a small team
- Participated in developing a communication protocol between server and client
- Developed various features of multiplatform core written in C++ including network client, database managing, data store design, map rendering using Skia
- Developed Android client app using Kotlin language and NDK / JNI
- Used technologies
  - Android SDK 16-26
  - Kotlin, C++ 11-14
  - Skia
  - Dagger 2
  - RxJava
  - MVI

Yandex Transport (unpublished, absorbed into Yandex Maps)

### **Vector Digital**, Android Developer

Apr 2015–Feb 2016 · Moscow, Russia

- Developed several Android applications and services for enterprise TV platform based on AOSP (compliant Android 4.4)
- Studied and customized AOSP for business needs
- Used technologies
  - Android SDK 19
  - Java

## SKILLS

### Primary

Android Development

Kotlin / Multiplatform

Java

C++

System Design

Gradle

### Familiar

NDK / JNI

Auto Testing

Back-end Web Development

Computer Graphics

Media Codecs

iOS Development

Rust

## LANGUAGE

**Russian**, Native

**English**, Advanced

# CERTIFICATIONS

## Coursera

[Algorithms by Stanford University](#)

[Algorithms by Princeton University  
\(Part I & Part II\)](#)

[Machine Learning](#)

[Coding the Matrix](#)

## edX

[Foundations of Computer Graphics](#)

[Artificial Intelligence](#)

## Misc

[Android School \(e-legion & Google\)](#)

## Bacca, Java Developer

Aug 2013–Oct 2014 · Moscow, Russia

- Developed several small Android applications
- Developed back-end web applications
- Participated in the development of EMC Documentum-based enterprise systems
- Used technologies
  - Android SDK 11-19
  - Java
  - Tomcat
  - Vaadin
  - Thrift

# PERSONAL PROJECTS

These are my solo-developed pet projects released to the public:

Developed and released a metronome app called “Click Track” for Google Play using Modern Android Development tools. The most challenging thing about this project was achieving precise timing for clicks which I managed to do by developing my own native analog of AudioTrack using the C++ library Oboe. Studying Linux thread scheduling quirks also helped in time precision improvements.

Used technologies

- Android SDK 21-33
- Kotlin
- 100% Jetpack Compose UI
- Kotlin Coroutines
- Android Media APIs
- C++
- Oboe

[Link to Google Play](#) [Link to GitHub](#)

Developed a CLI tool using Rust language to import music to my personal music server.

[Link to GitHub](#)

Built personal site using TypeScript language, Node.js, React.js, and Next.js.

[vsevolodganin.com](#) [Link to GitHub](#)

Also, setup personal music server using Yandex Cloud and Subsonic using minimum CPU and memory available, connecting with S3-compliant storage by mounting local virtual filesystem powered by FUSE.

[music.vsevolodganin.com](#)

# EDUCATION

## National Research Nuclear University MEPhI

Specialist Engineer Degree (MSc equivalent)

Faculty of Cybernetics, Department of Automated Information Processing & Control Systems (№29)

2008–2013 · Moscow, Russia