# Vladimir Aksenov

## Principal/Lead Software Engineer

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**Software Engineer** who designs, writes and delivers software as a solution to an end-to-end problem **9+ years** and leads the team to less technical debt and greater performance.

- Developing and supporting applications with **millions of DAU** (50M+ downloads in total) with **unit tests** coverage and **documentation**
- Developing full projects of different scales from scratch for **5 companies** (Frontend/backed/mobile apps)**.**
- Founder and **hackathon participant** with real-world entrepreneurial experience and technical leadership.
- Working with **embedded android applications** and improving the **custom version of AOSP for cars**
- Developing **AR/VR applications** from scratch and **involving new partners** for the company
- **Leading development teams** on non-trivial projects
- Understanding of **release processes**, **CI/CD pipelines**

## Skills & Tools

Kotlin | Android Development | MVVM Architecture | Jetpack Libraries | Android SDK | Kotlin Coroutines | Kotlin Flow | Unit Testing | Instrumentation Testing | RESTful APIs | Multithreading | Performance Optimization | Memory Management | Jetpack Compose | Custom UI Components | UI Design Principles | Mobile CI/CD | Build Automation | Deployment Automation | WebSockets | Published Apps | Cross-functional Collaboration | Technical Leadership | Project Ownership | Real-time Interaction | Mobile Performance | Modern Android Architecture | Asynchronous Programming | Clean Code | Mobile UX | Resource-constrained Environments | TDD | Bluetooth | WIFI | AOSP

## Work experience (Most recent employment)

### Principal Software Engineer & Techlead , BMW/Paradox Cat, 05/2023 – Present
Development and support of the BMW and MINI Android HMI system built into the car. Work with custom embedded **phone, bluetooth, wifi application** with Wifi/Bluetooth based and **system Radio application**. I worked with Unreal Engine/Unity for 6 months on the development of VR/AR applications for Meta Quest as a prototype for the company's new product. I develop and promote new startups within the company.

- Interaction with the customer, formation of requirements
- Managing a team of 16 developers of various levels (mainly Senior)
- Working with system apps and modification of custom AOSP impl.
- Creating/Improving system features
- UX/UI expertise, tasks estimating, supporting documentation

**Some achievements:**
- **Decrease ≈50% build time** for the whole team
- 80% project refactoring, which **reduced** the incoming **flow of bugs by more than 3 times**
- Added special display emulation when hardware was unavailable (Influenced all QA and Dev teams)
- Created a new AR/VR project for the company and became a local expert on AR/VR stacks
- Added support for a new bluetooth device type (AOSP modification + new app for all BMW model ranges)

### Lead Android developer (Core team), Ozon, 02/2022 – 05/2023
The biggest NASDAQ listed e-commerce IT company in Russian and the nearest countries. Highly loaded application with 50M+ downloads in Google play.

- Improving general application stability (Crashrate), Unit test coverage and etc.
- Assistance in the work of feature teams
- Optimizing application speed and startup metrics (Start time, decoding time, scroll hitch rate, page time and etc.)
- Conducting technical interviews (Senior/Leads)
- Creating/Improving system components for feature teams
- Supporting internal company libraries and CI/CD (Push, Analytics, UI-KIT, Gradle plugin, etc.)

- UX/UI expertise, tasks estimate

**Some achievements:**

- **Reduced application start time by ≈800 ms** by improving decoding and view optimization
- **Reduced feature deploy time** in the ui **internal library by ≈12-16%** by git submodule integration
- Made it possible to use the app for the visually impaired by refactoring the system to transfer data for auto testing
- Integrated encryption and token hiding to **ensure security**

### Senior Android developer, [VTB Investment](), 01/2021 - 02/2022

One of the largest banks in Russia, where on one project I worked with 90+ Android developers. Big application with 10M+ downloads.

- Improving the stability of my module (Crashrate), Unit test coverage.
- Implementation of new features (precious metals deals feature)
- Support/refactoring module architecture
- Communication with designers and backend developers
- UX/UI expertise, tasks estimate, technical interviewing

**Some achievements:**

- Redesigned architecture of my team module to MVI from MVVM
- Improved team module crash rate by 0.12% (99.93% was 99.81%) by legacy refactoring
- Removed obsolete components that do not match the design system
- Refactored product detail page that increased product traffic by ≈6%

### Android developer, [Touch Instinct](), 05/2019 - 06/2021

Outsource company, that develops applications for big companies with 1M+ downloads. Developed applications with a focus on security and smooth user experience (projects: Megaphone.Bank, Lukoil, Soglasie, Moneta Wallet, Cryptonator, MIR loyalty)

**Some achievements:**

- Developed architecture for a new project (almost MVI with android specific improvement)
- Designed application deploy process and new project creation process
- Automatized the sms delivery process for two-factor authorization with telegram bot

# Education and skills

| 2020–2021 Helsinki, Finland | Metropolia University of Applied Sciences (1S) , BSc Computer Science |
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| 2017 - 2021 Saint-Petesburg, Russia | ITMO University, BSc Computer Science |

## Languages

Russian (Native), English (Fluent), Deutsch (A2)

## Soft Skills

solve problems | flexibility | collaboration | mentoring | work ethic | organized | detail-oriented | entrepreneurial | responsible | autonomous | learning | Team Collaboration | high-scale products | self-organized | lead & support teams |