Alex Volkov

PRINCIPAL SOFTWARE ENGINEER | Android, Kotlin & Jetpack Compose

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SUMMARY

Principal Software Engineer with 13+ years in Android and mobile products used by millions. Leads architecture and cross-team delivery across streaming, mapping and connected devices. Deep expertise in Kotlin, Jetpack Compose and Kotlin Multiplatform; author of a practical book on Android runtime shaders.

CORE SKILLS

Android: Kotlin, Java, Android SDK, Jetpack Compose, Coroutines, Flow, Gradle

Architecture: Kotlin Multiplatform (KMM), multi-module systems, Clean Architecture, MVVM / MVI

Leadership: Technical direction, cross-functional delivery, code review, mentoring, CI/CD

Graphics & performance: OpenGL ES, AGSL / RuntimeShader, real-time rendering, profiling, memory optimization

PROFESSIONAL EXPERIENCE

Principal Software Engineer | HERE Technologies | Jul 2026 - Present

- Drive architecture and technical direction for large-scale mobility and mapping products.

Staff Android Engineer | DAZN | Jan 2025 - Jun 2026

- Refactored the main screen from XML Views to Jetpack Compose in a streaming app used by millions across regions.
- Built an MVP for migrating the full application to Kotlin Multiplatform (KMM), validating the cross-platform approach.
- Led feature delivery across distributed Android teams, reviewed architecture and mentored engineers.

Senior Android Engineer | Fieldbee | Oct 2023 - Dec 2024

- Built a custom OpenGL navigation map from scratch for agricultural vehicles, integrating real-time GPS and sensor data.
- Created reusable Jetpack Compose components for data visualization, reducing UI development time by 40%.

Senior Android Engineer | Pison | Oct 2021 - Oct 2023

- Architected real-time collection and transmission of neural-signal data from wearable devices.
- Built low-latency visualizations for continuous sensor streams; optimized threading and memory usage.

Android Engineer | BPMobile | Aug 2019 - Oct 2021

- Integrated computer vision and math recognition with live camera feeds in a document-scanning app.
- Migrated Java to Kotlin and RxJava to Coroutines / Flow, reducing crash rate by 25%.

Android Engineer | Viber Media | Aug 2013 - Aug 2019

- Delivered core Android messaging features for a product with millions of users, improving performance and stability.

WRITING & OPEN SOURCE

Author, Runtime Shaders for Android and Jetpack Compose. Free online book with practical AGSL and graphics examples. avolkov.me/book | GitHub examples

EDUCATION

Magister (Master's), Mathematics and Computer Science | Belarus State University | 2011

LANGUAGES

Belarusian - native | Russian - proficient | Polish - advanced | English - upper-intermediate