

Kotlin Script

Even more Kotlin if you want (need)

06 July, Droidcon Berlin

What is about

Agenda

- Kotlin script (what, how)
- Short about CLI
- Demo
- Experience
- Q&A

Freelance Android Engineer

Available for hire

PROFILE

Skilled **MOBILE ENGINEER** with years of experience building robust, secure and slick client-server applications. My biggest challenge is improving mobile development to desktop/server-side quality and processes level.

EXPERTISE

Languages: Kotlin, Java, Swift, Objective-C
Platforms: Android, iOS
Tools/Libraries: Android Studio, IntelliJ IDEA, Xcode, AppCode, Git, Gradle, Maven, CocoaPods, Proguard, DexGuard, JUnit, Mockito, AssertJ, Espresso, GitHub, GitLab, Jenkins, Sonar, Jira, TestFlight, Crashlytics, Firebase, Lokalise, Jetpack Compose UI, Dagger2/Hilt, Koin, RxJava, Kotlin Coroutines, JetPack, Retrofit, OkHttp, Glide, Coil, Moshi, Gson, Kotlin Serialization, Jackson
Methodologies: Scrum, Kanban, Open Source, SOLID, Automated testing, TDD, CI/CD, OOP, Security, XP

ANDROID ENGINEER, DOKTOR.SE, REMOTE — 2021-CURRENT

[www.doktor.se](#) [www.doktor.de](#)
My main focus is a project that was launched in Germany in 2022. I currently hold a mobile lead for the new feature we are working on with the iOS team. The most significant features - the patient documents, biometrics unlock, and various partners integration. However, I spend 30% of my time on various improvements. Added automated build profiling, introduced feature toggles, and added result class and retrofit call factory to make the network stack look more functional. I worked on app minification. I updated the app targeting for Android 13. And much more.

ANDROID ENGINEER, SQUIRE, REMOTE — 2021

[www.getsquire.com](#)
I joined Squire at the start of the barber app rewrite. I work on the barber profile section and spend 20% of my time on various improvements. Introduced zero warning policy, added build profiling, and decreased app apk size (30%) by removing unused dependencies. Also introduced a process to communicate API issues and proposals for the changes.

ANDROID ENGINEER, TRIPACTIONS, AMSTERDAM, NL — 2020

[www.tripactions.com](#)
I joined TripActions as the android test and automation expert. I worked as part of the support team and implemented chat features like emoji reactions, sending GIF and media URLs from keyboard apps, reworked model and JSON paring for the chat context buttons. As well I improved the build speed on CI by around 30%, added the ability to quickly check new lint findings, and decreased the size of the apk binary for the 4MB (around 5%). Participated in multiple discussions around team collaboration, and currently a company expert in the localisation project.

ANDROID ENGINEER, YOLT BY ING, AMSTERDAM, NL — 2016-2020

[www.yolt.com](#)
I joined Yolt after two weeks as Android development started. We discussed architecture and a minimal set of dependencies with another Android engineer. Currently, I'm the chapter lead of the Yolt Android team. That includes looking forward to new Android changes and product vision, monitoring and improving team process/standards, managing technical debt, grooming the Android brand within and outside the company, collaborating with partners and Yolt stakeholders, maintaining build tooling and resolving infrastructure questions, advocating conversations with PO and other disciplines within the company. Thanks to the proactive Android team, I am still in massive development and slowly building features like GDPR, KYC (Know your customer), PSD2/Open Banking.

SENIOR ANDROID ENGINEER, CDP PHILIPS, EINDHOVEN, NL — 2015-2016

[www.philips.nl/c-m-mo/ugrow-gezonde-ontwikkeling-van-babys](#)
Joined just formed the uGrow android team. Together with another senior developer, we set up the project, chose initial dependencies and started features. Kept 90% coverage as a rule and had Calabash acceptance tests. Chased the iOS team with UI perfection and nice animations. Participating in the department competence group and pushing continuous delivery into projects.

MOBILE ENGINEER, MINDDISTRICT, AMSTERDAM, NL — 2014-2015

[www.minddistrict.com](#)
I started the mobile division at Minddistrict, which grew later to a team of three people. Developed Android and iOS Minddistrict diary application. The critical factor is app security which is essential for the eHealth app. We were highly reliant on unit tests and automated acceptance testing.

LEAD MOBILE DEVELOPER, EBUDDY, AMSTERDAM, NL — 2013

[www.xms.me](#), [www.ebuddy.com](#)
I was part of eBuddy XMS core team. Challenge and assist business and product teams with future solutions and estimations. Later moved back to complete development for personal reasons. Was involved in product application development, quality improvements, and consistency in processes and philosophy. Contributed to raise company values and share them inside and outside the company.

MOBILE JAVA DEVELOPER, EBUDDY, AMSTERDAM, NL — 2010-2013

[www.ebuddyxms.com](#), [www.ebuddy.com](#)
Worked under eBuddy Chat (former IM) Android and J2ME clients, eBuddy XMS Android, BlackBerry and J2ME for a couple of years. The main areas of focus were quality improvements and automated product testing. Contributed to eBuddy XMS mobile Java SDK and was a scrum master for the Android team for a short time.

MOBILE TEAM LEAD, TEAMDEV, KHARKIV, UA — 2010

[www.mylifeorganized.net](#)
Worked with the team on several indoor and customer products for various platforms (Android, BlackBerry, iOS). Managed small team and continued development in 30/70 base.

EDUCATION

Kharkiv National University — Master of Applied Mathematics, 2003
Stanford University Online — Algorithms: Design and Analysis Part I, 2012

OTHER ACTIVITIES

I'm mad about dances, yoga, swimming and rugby.



Kotlin Script

What is Kotlin Script

- Execute Kotlin code without prior compilation or packaging
- Experimental -> Beta

How to Kotlin Script

- .kts, .main.kts
- kotlinc
- kscript
- kotlin
- JVM

CLI

Command Line Interface

- Interaction over the text inputs (terminal)
- *prompt* **command** param1 ... paramN
- Options (flags) and Arguments (parameters)

Kotlin Script and CLI

- KotlinX CLI
- Clikt
- Kotlin Shell

Demo

Experience

Take aways

- Preinstalled environment
- JVM (starting noticeably slow), jvm dependencies
- IDE support
- Debug/Tests
- Can not use compiler plugins (KT-47384)
- Exit code
- Kotlin slack

Q&A



@olgamuzician

Thank you!