

Projects

Work safety

Germany

since March 2022

For a company that sells B2B a emergency system, we were hired to refactor the code base on all layers and to continue developing and optimising the functional scope. To avoid a feature stop, it was decided to do the refactoring iteratively. In addition, algorithms for fall detection and BLE beacons for indoor positioning were developed.

Kotlin

Coroutines/Flow

Unidirectional data flow

BLE/Beacons

Notifications

Retrofit/OkHttp

State Machine

Koin

Sentry

Jetpack

Sensors

Film industry

Germany

August 2021 – February 2022

Another video streaming platform was supplemented by a native Android app. Our task was to first implement the UI layer and then implement the remaining layers. We used Jetpack Compose (Android's new UI framework toolkit) for the first time for the UI implementation.

Kotlin

Coroutines/Flow

Coroutines/Flow

Coil

ExoPlayer

Retrofit/OkHttp

Jetpack (Compose, Hilt, DataStore, Navigation, etc.)

Film industrie

Germany

July 2021 – November 2021

For the development of a video streaming Android app we were responsible for the UI layer. In addition to complex custom views such as the Electronic Program Guide (EPG), a dynamic styling system had to be implemented so that the app could later be offered as a white label solution.

Kotlin

Coroutines/Flow

Unidirectional data flow

Koin

Picasso

Retrofit/OkHttp

Jetpack (Viewmodel, DataStore, Navigation, etc.)

Telecommunications

Germany

February 2021 – April 2021

For an IT service provider working in the telecommunications industry, we were responsible for the further development of a client-side SDK, which is developed in-house. The SDK communicates with a server via APIs generated by OpenAPI. We extended the APIs and integrated them into the SDK. The new features, among others Consent-Management, were implemented for the app of a larger customer the company serves. The UI design for the app was created by a designer in the tool Figma, which was subsequently implemented by us. The planning was done according to agile methodologies.

Gregor Block

Android Developer

Contact

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Skills

Software Engineering

- Android Framework (Kotlin/Java)
- Frontend/Backend Development
- Database design SQL/NoSQL
- UI/UX Design & Concept Development
- IT Consulting
- Functional reactive programming (Coroutines, RxJava)
- Software Architecture, Clean, SOLID, MVVM, MVI, MV*
- Dependency Injection (Dagger 2)
- Android Jetpack, Material Design
- Sensors, Bluetooth (Smart)
- Teams, Slack, JIRA, etc.

Languages

German
English
Russian



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Languages

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English
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Kotlin

Coroutines/Flow

Jetpack (Workmanager, Navigation)

Ktor

Unidirectional data flow

OpenApi

Test Driven Development

JUnit, Espresso

Sentry

GitLab

Agile

Health care

Germany

February 2021 – Juni 2021

After a consultation phase, the notifications are natively implemented for an emergency app developed in react-native. The challenge was to find a way to handle the different restrictions of the device manufacturers. In addition to the actual implementation, the communication with the react modules had to be taken into account.

Kotlin

Firebase Cloud Messaging

Android Native Modules (react-native)

Education

Germany

April 2020 – July 2021

An app for educational institutions is extended by a new feature. Data is provided by a second backend system through a REST interface, which I integrated into the app. The app will be extended by a registration feature, authentication with token management (JWT) and different interfaces to display or change data through the given REST API. In addition, there were other activities such as consulting and maintenance over a longer period of time.

Kotlin

MVI+MVP

Databinding

Retrofit

Koin

RxJava2, RxBinding

JUnit, Mockito, Espresso

Aviation and aerospace

Germany

March 2020

An already existing app should be rebuild from scratch using more modern approaches. As part of a team I was responsible for the implementation of one of the features. Locally stored data was read out and displayed in different views, for which I had to develop a complex custom view.

Kotlin

MVVM

Databinding

Jetpack

JUnit, Mockito

Open Source Projects

GraphView

Co-author (<https://github.com/Team-Blox/GraphView>)

Android library used to display data in graph structures.

Featured in Android Weekly, Issue #378



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Languages

German
English
Russian

CV

Work Experience

- **Block & Block Software Engineering GbR** since January 2019
Android Freelance Developer
- **B. M. S.** since September 2018
Co-founder and -author
Computer-assisted monitoring of collapse-endangered structures by laser interferometers.
- **MexIT GmbH** June 2014–April 2017
Android Development



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Languages

German
English
Russian

CV

Education

- **Fachhochschule Südwestfalen** March 2013—September 2018
Iserlohn
Applied computer science
Master of Science with honors
- **Fachhochschule Südwestfalen** December 2008—December 2012
Iserlohn
Applied computer science
Bachelor of Science
- **Berufskolleg Olsberg des HSK** December 2004—December 2007
Training as a "State-certified information technology assistant"
Advanced technical college entrance qualification