Dennis Block
Android Developer

Contact

Dennis.Block@bandb.dev
www.bandb.dev

Skills

Android Development

Android SDK since Android 2.1
Android Jetpack
Sensors, Bluetooth (Smart)
SQLite, Room, Realm
RxJava, RxAndroid, Coroutines
Dagger 2/Koin
REST API, Json, Retrofit
Clean code, MVVM/MVP/MVI
Git, GitHub/Bitbucket/Gitlab
JUnit, Mockito, Espresso
Teams, Slack
JIRA

Programming Languages

Java
Kotlin

Languages

German
English

CV

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.

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Unidirectional data flow	OpenApi	Test Driven Development	Kotlin

Coroutines/Flow Jetpack (Workmanager, Navigation) Ktor

JUnit, Espresso Sentry GitLab Agile

▪ **Health care**　　　　　　　　　　　　　　　February 2021 – Juni 2021
Germany

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**　　　　　　　　　　　　　　　　April 2020 – July 2021
Germany

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**　　　　　　　　　　　　　March 2020
Germany

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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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.

- **Fleetbird GmbH** September 2018–October 2018
  Android Developer
  Development on the Fleet-Sharing Android app in Java. Implementation of specifications. Close cooperation with design and iOS team.

- **MexIT GmbH** June 2014–April 2017
  Android Development

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