

Android Developer

Relevant Roadmaps

- ✓ React Native Roadmap
- ✓ Flutter Roadmap

Find the detailed version of this roadmap
Along with resources and more roadmaps

<https://roadmap.sh>

Pick a Language

- Kotlin ✓
- Java ✓

The Fundamentals

- Development IDE
- Basics of Kotlin
- Basics of OOP
- DataStructures and Algorithms
- What is and how to use Gradle?
- Create a basic Hello World App

Version Control Systems

- GitLab ✓
- BitBucket ✓
- Git
- GitHub ✓

App Components

- Activity Lifecycle
 - Activity
 - State Changes
 - Tasks and Backstack
- Services
- Content Provider
- Broadcast Receiver
- Intent
 - Implicit Intents
 - Explicit Intents
 - Intent Filters

Layouts

- Frame
- Linear
- Relative
- Constraint
- RecyclerView

Interface and Navigation

- TextView
- EditText
- Buttons
- ImageView
- ListView
- Tabs
- Fragments
- Dialogs
- Toast
- Bottom Sheet
- Drawer
- Animations

- Jetpack Compose
- App Shortcuts
- Navigation Components

Architecture and Design Patterns

- Flow
- RxJava
- RxKotlin
- LiveData
- Dagger
- Hilt
- Koin
- Kodein
- Repository Pattern
- Builder Pattern
- Observer Pattern
- Dependency Injection
- Factory Pattern

- MVI
- MVVM
- MVP
- MVC

Architectural Patterns

Shared Preferences

Storage

- Retrofit
- OkHttp
- Apollo-Android

- DataStore
- Room Database
- File System

Network

Asynchronism

Common Services

- Coroutines
- Threads
- RxJava
- RxKotlin
- WorkManager

- Authentication
- Crashlytics
- Remote Config
- Cloud Messaging
- FireStore
- Firebase

- Firebase Distribution
- Google Playstore

- Espresso
- JUnit

- Ktlint
- Detekt

- Google AdMob
- Google Play Services
- Google Maps

Distribution

Testing

Debugging

- Signed APK

- Timber
- Leak Canary
- Chucker
- Jetpack Benchmark

Keep Learning