



MOBILE DEVELOPER

Build native and cross-platform mobile applications

7 stages · progressive skill path

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01

1–2 weeks

CHOOSE YOUR PATH

iOS → Swift + SwiftUI

Android → Kotlin + Jetpack Compose

Cross-platform → Flutter (Dart)

Cross-platform → React Native (JS/TS)

Evaluate: Market Demand & Job Goals

Cross-platform for startups; native when performance is critical

02

4–6 weeks

LANGUAGE FUNDAMENTALS

Swift or Kotlin or Dart

OOP & Protocols / Interfaces

Closures & Lambdas

Async Programming (async/await)

Generics & Type System

Error Handling

Memory Management

Master the language before the framework – mobile quirks matter

03

6–8 weeks

UI DEVELOPMENT

SwiftUI or Jetpack Compose or Flutter Widgets

Navigation Patterns (stacks, tabs, drawers)

State Management (StateFlow, Bloc, Provider)

Lists & Lazy Loading

Custom Animations

Dark Mode Support

Adaptive Layouts

Users judge apps by feel first – polish matters enormously

04

3–4 weeks

DATA & NETWORKING

REST APIs (URLSession / Retrofit / Dio)

JSON Parsing (Codable / Gson / json_serializable)

Local Storage (CoreData / Room / Hive)

Offline-first Architecture

Caching Strategies

WebSockets

GraphQL Client

Design for slow networks and offline mode from day one

05

3–4 weeks

PLATFORM FEATURES

Push Notifications (APNs / FCM)

Camera & Photo Library

GPS & Location Services

Biometric Auth (Face ID / Fingerprint)

Background Tasks & App Lifecycle

Deep Links & Universal Links

In-App Purchases

Each platform feature has pitfalls – always read the official docs



06

2–3 weeks

PUBLISHING & CI/CD

App Store / Play Store Submission

Code Signing & Provisioning Profiles

TestFlight / Firebase App Distribution

Fastlane Automation

GitHub Actions for Mobile

Crash Reporting (Firebase Crashlytics)

App Analytics

Automate your release pipeline – manual releases introduce human error



07

Ongoing

ADVANCED MOBILE

Performance Profiling (Instruments / Android Profiler)

AR (ARKit / ARCore)

On-device ML (Core ML / ML Kit)

Accessibility (VoiceOver / TalkBack)

MVVM + Clean Architecture

SDK Publishing

App Clips / Instant Apps

Accessibility expands your user base and is often a legal requirement

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Thanks for learning with us – share this roadmap with your team!

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