

SkillCred

# Mobile Development Program

Build Cross-Platform Apps. Master Device APIs. Ship to App Stores.

8

Weeks

96

Hours

4

Projects

6

Days/Week

HYBRID MODEL

2 Solo + 1 Pair + 1 Group Capstone

Dual Track

8W Standard + 4W Fast Track

Mentor Verified

Every project reviewed

PAT Certified

Score visible to all HRs

# 8-Week Syllabus

Mon-Sat | 2 Hrs/Day | 48 Sessions | 96 Contact Hours

## 01 Mobile Foundations & UI

React Native/Flutter, components, Flexbox, navigation, Material/HIG

SOLO 1 START

## 02 State Management & Data

Redux/Zustand or Provider, async, API integration, SQLite, forms, caching

SOLO 1 DELIVERY

## 03 Device APIs & Native

Camera, geolocation, maps, push notifications (FCM), biometric, sensors

SOLO 2 START

## 04 Backend & Firebase

Firebase (Firestore, Auth, Storage), REST, GraphQL, offline-first, sync

SOLO 2 DELIVERY

## 05 Real-Time & Advanced UI

WebSocket, animations/gestures, theming, FlatList optimization, ally

PAIR START

## 06 Performance & Testing

Profiling, lazy loading, memory leaks, Jest, Detox/Appium E2E, CI

PAIR DELIVERY

## 07 App Store & Distribution

Signing, App Store/Play Store, OTA updates, analytics, crash reporting

CAPSTONE START

## 08 Capstone Polish & Demo

Final features, edge cases, performance/ally audit, store metadata, demo

CAPSTONE DELIVERY

### DAILY 2-HOUR SESSION

0:00-0:10

Recap

0:10-0:40

Concept

0:40-1:30

Build Sprint

1:30-1:50

Standup

1:50-2:00

Wrap

# Your 4 Portfolio Projects

2 Solo (individual) + 1 Pair (collaborative) + 1 Group Capstone (team)

SOLO 1 | INDIVIDUAL | Weeks 1-2

Difficulty:

## Smart Personal Finance Tracker

Transaction entry with categories/photo receipt, budget limits, monthly/weekly breakdown with animated charts (pie, bar, trend), recurring transactions, search/filter, SQLite persistence, CSV export, dark/light theme. Loads <2s, 60fps animations, handles 1000+ transactions.

Tech: React Native/Flutter, SQLite/Realm, Victory Charts/fl\_chart, react-navigation | HR Signal: Junior Mobile Developer hire bar

SOLO 2 | INDIVIDUAL | Weeks 3-4

Difficulty:

## Geo-Aware Social Discovery App

Firebase Auth (email, Google, biometric lock), interactive map with markers/clustering/radius search, geofencing with proximity push notifications (FCM), user profiles with photo upload, Firestore real-time sync + offline, location-based feed with infinite scroll, deep linking. Geofence triggers within 100m.

Tech: React Native/Flutter, Firebase (Auth, Firestore, Storage, FCM), Google Maps SDK, Geofencing API | HR Signal: Mobile Developer hire bar

PAIR PROJECT | 2-3 STUDENTS | Weeks 5-6

Difficulty:

## Real-Time Social Polling Platform

Create polls (single/multi/ranked/rating), real-time vote streaming with animated charts, room-based sessions with QR join, auth with voting history, gesture interactions (swipe to vote), accessibility support, full test suite. 100 simultaneous voters <200ms sync, 60fps, app <30MB.

Tech: React Native/Flutter, Socket.io/Firebase Realtime DB, Reanimated 2, Jest + Detox

Student A: WebSocket real-time engine, vote streaming, animated charts, gestures | Student B: Auth flow, profile management, test suite, performance profiling, accessibility

GROUP CAPSTONE | 5 STUDENTS | Weeks 7-8 | Pick 1 of 3

Difficulty:

## Option 1: Hyperlocal Services Marketplace App

Dual app (customer + provider), service catalog with search, real-time booking + availability, live location tracking, in-app payment (Stripe/Razorpay) with splits, ratings/reviews, push notification lifecycle. Tech: React Native/Flutter, Firebase, Google Maps, Stripe/Razorpay, Socket.io

## Option 2: AI-Powered Health & Wellness Companion

AI health chatbot (LLM API), workout tracking + video guides, nutrition logging with barcode scan, sleep tracking, social challenges/leaderboards, Apple Health/Google Fit integration, premium subscription. Tech: React Native/Flutter, Firebase, OpenAI API, HealthKit/Google Fit, Stripe

## Option 3: Smart Campus Super App

Indoor navigation with AR, class schedule sync, event discovery + RSVP, food court ordering + payment, lost & found, student marketplace, attendance (BLE/QR), anonymous confessions with moderation. Tech: React Native/Flutter, Firebase, AR Kit, BLE, Stripe/Razorpay, Maps SDK

Module Ownership (all capstones): A: Auth, profiles, onboarding | B: Core features, search, booking | C: Maps, tracking, real-time | D: Payments, social, notifications | E: Admin, analytics, store deploy

# Two Career Pathways

Both available simultaneously – not mutually exclusive

## Employment Track

1. Complete 4 verified projects
2. Take PAT certification exam
3. Portfolio published to HR Portal
4. HRs discover and shortlist you
5. Interview scheduled via platform
6. Offer extended – placement tracked

## Startup Track

1. Build investor-grade capstone
2. Mentor verifies for Investor Portal
3. List project with pitch deck & demo
4. Investors discover your project
5. Pitch invitation and presentation
6. Startup mentorship and funding

## Project Assessment Test (PAT)

Your certification score – visible to every HR on the platform

MCQs 20% | Coding 25% | Architecture 20% | Viva Defense 25% | Peer Review 10%

**90–100**

**Elite**

Top 5% – senior roles, startup founding

**75–89**

**Pro**

Job-ready with solid fundamentals

**60–74**

**Certified**

Entry-level – core concepts proven

## Mentor Verification – The Trust Engine

No project reaches HR or Investor portal without rigorous mentor review.

Code Quality 25% | Functionality 25% | Architecture 20% | Docs 15% | Deployment 15%

## Ready to Build Your Future?

4 verified projects | PAT certification | Two career pathways

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