Bhavya M

Dallas, TX | bhavya.m0223@gmail.com | GitHub | portfolio | 940-843-7625

Professional Summary

Detail-oriented Android Developer with 4+ years of experience specializing in Kotlin, Jetpack Compose, MVVM, and Firebase. Adept at building scalable, modern Android applications using clean architecture and integrating backend services such as AWS and Firebase. Proven track record of delivering production-ready apps, debugging performance bottlenecks, and automating CI/CD pipelines. Experienced in agile environments, collaborating with cross-functional teams, and driving full SDLC from planning to deployment.

Skills

- Languages: Kotlin, Java, Dart, XML, SQL, Python
- Android: Jetpack Compose, ViewModel, LiveData, Room, DataStore
- Cloud: Firebase, Firestore, Realtime DB
- Cross-Platform: Flutter (Beginner)
- DevOps: GitHub Actions, Bitrise, Jenkins
- Databases: SQLite, Room, Firestore
- Testing: Espresso, JUnit, Mockito

GitHub Projects

SafetyApp – githubSafteyApp

- Built a safety-focused emergency alert app using Kotlin, Firebase, and Google Maps SDK.
- Enabled real-time location tracking and emergency alert broadcasting to selected contacts. ☐ Used MVVM architecture and Firebase Realtime Database for scalable updates.

AI ChatBot – githubAI_ChatBot

- Created a conversational AI chatbot using OpenAI API and Jetpack Compose for UI.
- Handled asynchronous networking with Kotlin coroutines for smooth interactions. ☐ Designed reusable UI components for quick layout scaling.

CustomWidgets – CustomWidgets

- Developed a set of reusable Jetpack Compose UI widgets to streamline interface consistency.
- Modularized design system and improved UI build speed in multiple Android apps.

SmartNotesApp – github.com/BhavyaMarripudi-1102/SmartNotesApp

- Developed an advanced Android notes app with reminders, snooze notifications, calendar/date-based filtering, and export to TXT/PDF, using **Jetpack Compose**, **Room Database**, **Hilt**, **MVVM**, and **Material 3** for a modern, maintainable architecture.
- Implemented search, filtering, alarm notifications, dynamic theming, and PDF export with **ViewModel**, **StateFlow**, **BroadcastReceiver**, and **Kotlin Coroutines**, ensuring smooth UX and scalable codebase.

Professional Experience

Android Developer – People Tech Group (Client: General Motors) | Dec 2019 – June 2023

- Developed the **Vehicle Info Android module** for GM's connected car system, enabling users to view detailed real-time vehicle data.
- Integrated **Retrofit** to consume VIN-based APIs for fetching diagnostics, mileage, engine status, and fuel levels.
- Followed **MVVM architecture** and utilized **Jetpack components** (LiveData, ViewModel, Navigation) to ensure a scalable and maintainable codebase.
- Integrated **Google Maps SDK** to visualize historical route data with markers, routes, and geofencing alerts.
- **Improved app boot time by 35%** by optimizing coroutine usage, caching strategies, and lazy data loading.
- Maintained **OTA (Over-the-Air)** update functionality, ensuring seamless firmware syncing between mobile and embedded vehicle systems.
- Implemented **custom logging and crash reporting** using Firebase Crashlytics and integrated analytics to monitor app performance across devices.
- Collaborated with cross-functional teams (backend, QA, design) in the U.S. using **Agile/Scrum**, participating in sprint planning and daily stand-ups.
- Conducted **code reviews** and enforced Kotlin best practices across modules to reduce technical debt.
- Built **unit and instrumentation tests** using JUnit, Mockito, and Espresso, improving test coverage by over 45%.
- Contributed to the migration of legacy Java modules to modern **Kotlin-based architecture**.
- Documented technical workflows, API contracts, and setup guides for internal developer onboarding and handoff.

Research Assistant– UNT Research Lab | Jan 2024 – May 2025

- Built modular health tracking components using Jetpack libraries and BLE integration.
- Reduced memory leaks by 40% using lifecycle-aware ViewModel and state handling.
- Enabled secure wearable device pairing for research data collection.

Education

University of North Texas — MS in Computer Science | Denton, TX | May 2025 Jawaharlal

Nehru Technological University — B.Tech in CSE | India | 2019

Certifications

- Introduction to Android Mobile Application Development by Meta– Coursera
- Java for Android by Vanderbilt University – Coursera
- API's by Meta - Coursera (on going)