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Karun Kumar

Career Objective

8+ years of professional experience as a **Mobile App Developer** of analysis, and design Seeking career enhancement with reputed organizations that provide challenge, growth, and opportunities to explore my potential.

PROFILE SUMMARY

I have experience as a software developer with senior app developers (Android, iOS, KMP, MAUI Apps), specializing in user interface design, application development, data security, and continuous improvement. Adept at identifying opportunities to enhance the user experience and develop new features to improve app functionality. Now my focus is on the programming language Android SDK, Kotlin, Java, SwiftUI, KMP, MAUI, Coroutines, and Python language features, and architectural patterns on Android (Opps, DSA, MVVM, REST API, GraphQL, Widget, wear os smartwatch, Compose, Room DB, Retrofit, Apollo Flow, DI, Dagger Hilt, Koin Razorpay, ExoPlayer, Automobile, Firebase & AI/ML, CameraX, Sensors Detection, Barcode Reader, TensorFlow, Bluetooth Classic, BLE, FM Radio, NFC, OpenCV, Offline storage, Android Responsive XML, Compose Design Phone/Tablet and Portrait/Landscape, Google Map, Geo-Fence alert, voice Assistant, polylines & India Map, Android Studio, Xcode)

SKILLS

- * I have the ability to understand business requirements and translate them into technical requirements and Android design principles and interface guidelines.
- * UI/UX design principles Like Figma, and Adobe.
- * Translate designs and wireframes into high-quality code.
- * Requirement gathering and analysis of the current system design and make suggestions for Improvements.
- * Working on a smartwatch with Samsung Galaxy Watch 5 & Emulator.
- * Health and fitness tracking implementation with sensors.
- * Design, build, and maintain high-performance, reusable, and reliable code.
- * Agile/Scrum methodology experience like Jira, Zoho and ALM Polarion.
- * Experience with Git or similar version control system Code review tools usage (Bitbucket, Gitlab, GitHub)
- * GIT version control system familiarity with CI/CD process and tools (Jenkins, Bamboo), Jira, and Confluence.

- * Implementation of Apollo GraphQL Android Client to connect to the server.
- * Wearables, such as smartwatches and vehicle trackers, offer various functionalities and benefits like ON/OFF Car, AC, Sunroof, Window, etc. * Voice Assistant to control vehicle functionality.
- * Identify and correct bottlenecks or fix bugs and improve existing software.
- * Knowledge of the open-source Android ecosystem and the libraries available for common tasks and the Google Play Store.
- * Application Security (Encryption/Decryption, R8, Obfuscation, SHA1, SSL Certificate etc) * Manage other team members in mobile application development.
- * TGU is a telephonic interface between the vehicle and the cloud communication.
- * Experience with Android unit and instrumented tests like Junit, mockK, espresso, mockito, and restmock.
- * implement admob, AdButler, and Facebook Audience Network.
- * Set as favorite video incoming call or outgoing also wallpaper.
- * Android Automotive framework infotainment app connect via BLE.

TECHNICAL SKILLS

- * for Dagger2, Hilt, Koin, CleverTap, Fabric, Lokalise, NDK, and C++ used for secure API keys.
- * Knowledge of cross-platform mobile development such as KMP or MAUI(Xamarin).
- * Kotlin-Scope function, High order function, sealed classes, data class, when expression Null safety, val const, companion object, extension function, lateinit, lazy block, etc.
- * Coroutines-> suspend function Dispatchers, coroutine scope, concurrency, asynchronous, concurrent code, launch() and async() await(), runBlocking, background tasks flow and channel hot & cold emit or collect.
- * Implementing Firebase-> Push Notifications, Crashlytics, In-App-Messaging, Google Analytics, App Distribution, Dynamic Links, Remote Config, Firebase database. etc.
- * App Widget Live Gari Price, Dynamic App Icon Changes
- * Understanding Of Memory Management and Designing High-Performance Apps
 - * Implement Huawei Mobile Services like Push Kit, Ad service, Authentication, etc.
- * Integrate Razorpay/In-app Purchase Payment Gateway
- * ExoPlayer HLS Live Streams .m3u8 and .mpd
- * LeakCanary, Chucker, android Studio Profiler, Proguard rules, Obfuscate.
- * Clean Architecture & SOLID Principles Design Patterns in Android with Kotlin
- * Android performance and memory usage analysis * Zendesk use for customer support live message chat.

- * Implement WebView Google Authentication Trusted Web activity (Digital AssetLinks) * Connect website to native Aap data transfer Javascript code like open camera.
- * Memory management->Garbage collection like the ART or Dalvik virtual machine,
- * Android storage->DataStore, Sqlite, Room, file handling, shared preferences, cache, realm, etc.
- * Improve code with checks like a tool, lint, detect, ktlint, etc.
- * R&D with IOT implementation of home appliances

CAREER HIGHLIGHTS

- * Proficient in writing clean, reusable enterprise standard codes.
- * Knowledge of Core Java and OOPS concepts Exception Handling, Multithreading and Collections and Stream API, Functional interface, Lambda exp.
- * Use Android Single-Activity Architecture with Navigation Component
- * Well-versed with MVVM, MVP, MVI, LiveData, Flow, and Constraint layout Design pattern Framework.
- * Good hands-on Bluetooth Socket, Event Bus, and local broadcast
- * Created Various View and View groups (Layouts/inflater/dynamic view) using XML Canvas.
- * Understanding of Activity, Fragment and View life cycle, and Service & Broadcast Receiver
- * Made applications absorbing Rest APIs using OKHttp, Rxjava/Ktor/Coroutines with Retrofit.
- * I used: YouTube SDK, Vimeo Player, Material Design, Offline cache, iTextPdf, Google Maps & Place API for path plotting, fetching address and place details.
- * Used third-party API for login to Google, Facebook, and AmazonS3 for Image Uploading.
- * Experience in integrating various payment gateway like Razorpay, and In-app Purchase.
- * Familiarity with RESTful APIs to connect Android applications to back-end services.
- * Ability to work independently with self-imposed schedules, projects, and deadlines.
- * Following a ticket system, troubleshooting, and resolving bugs and queries.
- * I have the talent for working under the Line Manager and handling a team of Android Developers or QA
- * Knowledge of architectural patterns (Clean Architecture, MVVM, MVI, MVP)
- * A modern Kotlin coroutines-based networking library with built-in WebSocket support.WssClient:
- * 3rd Party Software Integrations library YCharts, SpeedView,Ktor, Socket,

PROFESSIONAL EXPERIENCE

- Mobile App Developer at **DTICI(Mercedes)** from (Oct 2024 to Till Now)
- An architecture & developer at **Hid Global** from (Feb 2024 to July 2024)
- Lead Android Engineer at **Mahindra & Mahindra** from (Aug 2023 to Feb 2024)
- Senior Android App Developer with **Tech4Billion Media Pvt Ltd** (Chingari) from (August 2020 to June 2023)
- Sr. Executive Developer with **Winds-E-world** Ltd from (October 2018 to Feb 2020)
- Senior Android Developer with **Savtech Educom Pvt. Ltd.** from (May 2016 to Sep 2018)
- (Training & intern) experience in **Edelweiss Broking Limited.** ANDROID DEVELOPER (January 2016 to April 2016)

EDUCATION DETAILS

1. **Master of Computer Applications (MCA):** Percentage: 65.9% University: Savitribai Phule Pune University.
2. **Bachelor of Computer Applications (BCA):** Percentage: 73.4% University: V.K.S ARA University.

PROJECT DETAILS

Project #1

Smart Source(DTNA)

Organization : **DTICI** (Mercedes) (**Vehicle**)
Technology : Kotlin,KMM,Swift, Ktor, Coroutines, MVVM,Map, Design ComposeUI.
Role : App Development(Mobile/Tablets) (Design/Dev/Jira/Unit Testing)

Project Description:

Smart Source provides quick and easy access to up-to-date news, videos, and brochures from Freightliner Trucks. This app gives you the ability to preview, save, and share videos, brochures, and links. It also provides quick links to other Daimler Trucks North America resources.

[Smart Source App Link](#)

Responsibilities:

- Communicating with PM to understand their requirements and expectations.
- Designing and developing apps, including creating user interfaces, writing code, and testing functionality vehicles.
 - Troubleshooting and debugging apps to identify and fix issues.
 - Optimizing app performance, battery life, and memory usage.
 - Meeting project deadlines and delivering high-quality results.

Project #2 Platform science(DTNA)

Organization : [DTICI](#) (Mercedes) (**Vehicle**)
Technology : Kotlin,KMM,Swift, Ktor, Coroutines, MVVM,Map, Design ComposeUI.
Role : App Development(Mobile/Tablets) (Design/Dev/Jira/Unit Testing)

Project Description:

This project focuses on building an intelligent vehicle tracking and navigation system that **optimizes routes, monitors battery strength, and locates charging stations** in real time. The system will leverage **HERE Maps** for navigation and provide a seamless user experience for **electric vehicles (EVs) and other smart mobility solutions**.

Frontend: Jetpack Compose (Android), SwiftUI (iOS)

Project #3 HID Reader Manager (Biometric Technology)

Organization : [Hid Global India Pvt Ltd.](#)
Technology : Kotlin Coroutines, Koin Hilt, MVVM, Retrofit, Map, Design Compose.
Role : App Development (Design/Development/Jira/Unit Testing)

Project Description:

HID Reader Manager streamlines the management of compatible HID Signo, iCLASS SE®, and multiCLASS SE readers in the field. Administrators can easily adjust configuration settings, upgrade firmware, inspect and export current reader status, and upgrade compatible readers to support Bluetooth and/or OSDP.

Bluetooth is used to communicate with the reader hardware.

Responsibilities:

- Requirements clarification.
- Optimizing application performance, battery life, and user experience.
- Participating in code reviews and ensuring adherence to coding standards.

<https://shorturl.at/enzNT>

Project #4 BluesensePlus App - XUV400(EV) (Vehicle)

Organization : [Mahindra Electric Mobility Ltd.](#)
Technology : Kotlin Coroutines, Koin Hilt, MVVM, Retrofit, Map, Design Compose.
Role : App Development (Design/Development/ALM/Unit Testing)

Project Description:

BlueSensePlus is an exclusive connected car application for the new all-electric Mahindra XUV400. It comes loaded with 60 plus class-leading features along with smartwatch connectivity to ensure your car is just a touch away.

Infotainment Systems navigation, and connectivity, allowing drivers and passengers to access music, navigation, and other services. monitoring battery health, and planning routes based on available charging stations like real-time traffic updates.

Responsibilities:

- Worked on functionality and India Map Geofencing, charging hub and connect app via Bluetooth and control vehicle.
- Writing clean, efficient, and well-documented code.
- Staying up-to-date with the latest Android trends, technologies, and best practices.
- Communicating with clients to understand their requirements and expectations.
- <https://rb.gy/x64zx>

Project #5

Chingari: (Live Chat, Video call, Voice call, etc) (social media)

Organization

: [Tech4Billon Media Pvt Ltd \(Chingari\)](#)

Technology

: Kotlin Coroutines, Koin, MVVM, XMPP, WebRtc, Retrofit, Live video/voice call via Zegocloud

Role

: App Development (analytics/development/Jira/JUnit or ui Testing)

Project Description:

Chingari is a live-streaming video, voice, and chat-sharing mobile app. In these videos, users have options to add visual effects, lip-sync, dance, or voice-over movie scenes and comic dialogues.

Responsibilities:

- Security and Data Privacy: Discuss data storage, security measures, and compliance with data protection regulations.
- Performance Metrics and Analytics: Determine which metrics to track and how to measure app success.
- Testing and Quality Assurance: Outline the testing process, including user acceptance testing.
- <https://rb.gy/jxsvc>

Project #6

WINDS App Shop, Pay & Recharge (Social Marketing)

Organization

: [WINDS E PVT LTD](#)

Technology

: Java/Kotlin Coroutines/Rxjava, dagger2, MVVM/MVP, Room Retrofit.

Role

: App Development (Design/Development/Jira/Automation Testing)

Project Description:

WINDS App is a one-stop solution shopping & payments app that offers the best online & offline shopping experience with the best possible cash rewards/WINDS reward points (WRP). buying brand vouchers/e-gift cards for your favorite brands (Swiggy, Myntra, Flipkart, Amazon, Zomato, etc).

Responsibilities:

- Project status updates and progress reports
- Plan and design architecture/and published app, daily scrum meeting by analyzing the project requirement

- <https://rb.gy/qad72>

Project #7

DAZN: Watch Live Sports (Live Stream Sports)

Organization

: Savtech Educom Pvt. Ltd. ([DAZN](#))

Technology

: Java RxJava, dagger, MVP, Sqlite, Volley Retrofit, Exoplayer.

Project Description:

At DAZN aim to give our fans the best possible sports-streaming experience. This update includes the ability to set reminders for events and receive notifications when they are about to begin.

Responsibilities:

- Design and user experience feedback.
- Troubleshooting and resolving application issues reported by clients or users.
- Plan and design architecture, daily scrum meeting by analyzing the project requirement
- <https://rb.gy/2smf7>

Project #8

Gym Fitness & Workout Trainer (Gym)

Organization

: Savtech Educom Pvt. Ltd. ([Gym Fitness Technology](#))

Technology

: Java, Retrofit, Glide, SQLite, Material Design, firebase, realm database.

Role

: App Development (Design/Development/Jira/Automation Testing)

Project Description:

Gym Fitness & Workout is a personal trainer that will provide you with a series of tools and information that will help you achieve all your goals.

Responsibilities:

- Plan and design architecture, daily scrum meeting by analyzing the project requirement
- <https://goo.gl/7Cu5C4>

Declaration

I **Karun Kumar** hereby declare that the above-mentioned details are true to the best of my knowledge.

Place: Bangalore

Karun Kumar