MUHAMED RIYAS M

MOBILE APPLICATION DEVELOPER – ANDROID/FLUTTER

CONTACT

+44 7587 410 289

riyaskokkur@gmail.com

https://mriyas.github.io

linkedin.com/in/riyaskokkur

https://github.com/mriyas

https://stackoverflow.com/users/mriyas

13 Paddock Close
Bradley Stoke, Bristol
BS32 0EX, UK

TECH STACK

Kotlin	●●●●●
Flutter	●●●●●
MVVM	●●●●●
Jetpack	●●●●●
JAVA	●●●●●
JUnit	●●●●●
REST API	●●●●●
Espresso	●●●○○
Paparazzi	●●●○○

KEY SKILLS

- Product Development
- Object-Oriented Programming
- Design Patterns
- Android APIS and SDK
- IOT Domain
- Problem Solving
- CI/CD
- Agile/Scrum

PROFILE

Results-oriented Android and Flutter developer with a decade of experience, specializing in high-quality mobile applications. I've launched over 20 apps and games, achieving 2 million+ downloads and generating 1 million GBP in ad revenue. Proficient in Kotlin and Java, with expertise in architectural patterns like MVVM and CLEAN Architecture, as well as networking protocols such as HTTP, MQTT, Websockets and TCP. Skilled in Retrofit, Coroutines, Hilt, Jetpack, and debugging tools like Wireshark and Charles, alongside 6 years of IoT experience, including developing a BLE SDK that reduced project timelines by 30% and costs by 50%.

I excel in writing concurrent code, managing remote data via REST/JSON, and ensuring software reliability. Experienced in video streaming, IoT connectivity, and backend integration with AWS and Firebase, I have experience in working with CI/CD pipelines to streamline deployments and agile methodologies to ensure rapid and iterative product

EXPERIENCE

Mobile Application Developer-Android

Dyson Ltd – Bristol, UK [August 2022 – till date]

- **Developed and Shipped Advanced Features:** Added features to the MyDyson app using Kotlin, Jetpack (Including Jetpack Compose), and modern Android principles like MVVM, Coroutines, and Dagger/Hilt.
- **Enhanced Connectivity and User Satisfaction:** Boosted user satisfaction to 95% by resolving connectivity issues, optimizing BLE connections, and adding a backoff retransmission mechanism for Dyson connected products.
- **Innovative Testing Solutions:** Developed a Paparazzi snapshot wrapper for exhaustive testing of Jetpack Compose UI elements, covering all states. This cut development time and achieved 100% test coverage.
- **Codebase Modernization:** Reduced Java source base to 2% in a multi-module project by re-writing Java code to Kotlin, adhering to best practices and improving maintainability.
- **CI/CD and Security Practices:** Experienced with CI/CD pipelines for mobile applications and knowledgeable in security best practices.
- **High-Quality Code Practices:** Authored reusable, self-documenting, high-performing code and participated in code reviews and pair programming to ensure 100% code quality and maintainability.
- **Agile Methodology and Stakeholder Engagement:** Experienced in Agile environments, presented sprint demos, and technical sessions to stakeholders in community meetings.

TECHNICAL SKILLS

Languages/Methodologies:

Java, Kotlin, XML, HTML, PHP, C, C++, Dart

Frameworks:

Android, Flutter, React Native, RxAndroid, Android-Jetpack, Retrofit, Firebase, Dragger-2,

Design/Architecture Patterns

MVVM, MVI, MVP, Factory, Adapter, Builder Pattern, Singlton

Database Technologies:

SQLite, My SQL, Room, Firebase

Version Control:

Git, GitHub, GitLab, Bitbucket

Tools:

Android Studio, Jira, Gradle, Git,

ACADEMICS

Master of Computer Applications, Calicut University of India
69% First Class
Bachelor of Mathematics, Calicut University of India
90% Distinction

GET IT ON Google Play

MyDyson | Lumos Control

BruHealth | Words Wagon

Diwans Durbar | Wordley

GMDC | PICO

EXPERIENCE

Mobile Application Lead – Android/Flutter

WiSilica India Pvt Ltd, Kochi, India [September 2014 – July 2022]

- **Leadership and Architecture:** Leveraged over 8 years of industry experience to drive system architecture decisions and lead projects from conception through launch, setting the technical and organizational direction for mobile development teams. Demonstrated expertise in popular architectural design patterns such as MVVM, MVI, and CLEAN architecture.
- **Mobile App Development:** Prototyped, designed, developed, tested, and published Android apps for home automation, real-time tracking, and media solutions. Implemented Jetpack components and integrated Retrofit for network operations. Proficient in networking protocols including HTTP, Websockets, TCP, MQTT, with experience in debugging tools such as Charles Proxy, Chucker and Android Profiler.
- **API and SDK Management:** Managed Android OS API updates and various SDKs including Bluetooth, WiFi, NFC, Networking, Camera (Photo/Video), Audio, and File Management. Demonstrated expertise in connecting to third-party hardware, video streaming, and IoT devices over BLE and WiFi.
- **Quarantine Management Apps:** Delivered critical quarantine management apps within stringent timelines (under 45 days) to various ministries of health during the COVID pandemic, resulting in a 50% revenue increase.
- **SDK Development:** Created the WiSilica Mesh Android SDK with comprehensive documentation, empowering smart home and indoor tracking vendors to develop custom apps. This development cut costs by 50% and reduced development time by 30%, which helped secure notable clients such as Samsung, Philips, iGuzzini, and Jio.
- **Networking and Connectivity:** Resolved Bluetooth Low Energy (BLE) issues in IoT applications by developing a BLE scanner wrapper and utilizing BLE central mode communication. Integrated Google Play services, Firebase analytics, and Google Maps API to enhance user tracking by 30%.
- **Advanced Debugging and Analysis:** Developed an internal sniffer app to decode BLE messages from embedded devices, aiding in cross-functional team collaboration and BLE traffic analysis.
- **Optimized App Performance:** Built an offline-first app to reduce server traffic by 30% and developed an Android Studio plugin to switch between application variants, cutting build time by 40%.
- **Concurrent and Secure Coding:** Migrated multi-module projects from Java to Kotlin and MVVM architecture, reducing crashes to below 5% and addressing issues in application state management. Innovated an AES-128 encryption library to protect against security threats.