



MUHAMED RIYAS M

MOBILE APPLICATION DEVELOPER - ANDROID

PROFILE

Seasoned Senior Android Developer with over a decade of experience designing, developing, and delivering high-impact mobile applications across domains including smart home, banking, gaming, and consumer tech. My expertise spans Android SDK, Kotlin, Java, Jetpack Compose, and modern architectures like MVVM and Clean Architecture. I have deep hands-on experience with libraries such as Dagger2 and Retrofit2 and build automation tools including Gradle and Jenkins. I follow Agile and TDD practices rigorously, ensuring scalable, testable, and maintainable codebases.

Skilled in Agile, TDD, and CI/CD, I've led teams and worked cross-functionally to enhance engagement, boost ratings, and drive monetization. Experienced with Play Store deployments, crash analytics, Git workflows, and tools like JIRA and Zeplin, I am a hands-on developer and proactive mentor committed to best practices and continuous improvement.

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.
- Migrated Home Screen to Modern UI:** Refactored the app's home screen using Jetpack Compose and Material 3 design system and updated 80% of UI tests for cross-compatibility with both XML and Compose-based views.
- 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.

CONTACT

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TECHNICAL SKILLS

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

KEY SKILLS

- Problem Solving
- Leadership
- Strategic Thinking
- Communication
- Agile Methodology
- Product Development
- Performance optimization

TECHNOLOGIES

Languages/Methodologies:

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

Frameworks:

Android, Flutter, React Native, RxAndroid, Android-Jetpack, Retrofit, Firebase, Dragger-2, Flutter SDK, Google Maps, Facebook SDK, Google Admob, REST API, Crashlytics, Sthetho, Flipper

Design/Architecture Patterns

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

Database Technologies:

SQLite, My SQL, Room, Firebase Realtime

Version Control:

Git, GitHub, GitLab, Bitbucket

Tools:

Android Studio, Jira, Gradle, Git, Maven

QUALIFICATION

Master of Computer Applications

Calicut University of India
69% First Class

Bachelor of Mathematics

Calicut University of India
90% Distinction



[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.