

Muhammad Mashood Siddiquie

Senior Mobile Application Developer

Mobile Application Developer with 7+ years of experience in Flutter, Android, and iOS development, delivering scalable and user-centric applications. Proficient in Dart, Kotlin, and Swift, with strong expertise in Agile methodologies and cross-functional team leadership. Experienced in building AI-powered solutions, including chatbots and RAG systems using OpenAI, Gemini, and vector databases. Skilled in integrating LLMs and modern AI tools to create intelligent, context-aware applications.



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Experience

- Jul 2025 - Present **Senior Mobile Application Developer**
Aqary International Group United Arab Emirates (Abu Dhabi)
- Developed and maintained white-label Flutter applications for the real estate domain (Android/iOS) using modular architecture (Melos) and BloC state management, enabling scalable, reusable multi-platform solutions.
 - Built AI-powered chatbot APIs using Dart Shelf, OpenAI, and ElevenLabs (text-to-speech), delivered as a reusable package; integrated server-driven UI (Stac), OTA updates (Shorebird), and Widgetbook to reduce UI issues by 25%.
 - Implemented secure communication, local data encryption, Sentry error monitoring, PostHog analytics, and OneSignal push notifications, improving app stability by 50% and enhancing user engagement and insights.
- Dec 2024 - Present **Senior Mobile App Developer**
Robotic Assistance Devices Canada (Remote)
- Developed and maintained cross-platform mobile applications (Flutter, Android, iOS) with a focus on AI and security, improving code maintainability by 25% and ensuring high performance.
 - Integrated native SDKs (Android/iOS) via platform channels for real-time camera streaming, and implemented BloC state management to optimize performance and reduce UI rebuilds by 60%.
 - Implemented secure communication protocols, local data encryption, and OTA updates (Shorebird), enhancing application stability by 50% and ensuring compliance with security standards.
- Aug 2023 - Dec 2024 **Senior Flutter Developer**
Pinnguaq Canada (Remote)
- Our utilization of Flutter development for cross-platform applications has reduced our time to market by 33%, accelerating our release schedules and increasing user engagement by 40%.
 - Employed Agile methodology and Continuous Integration/Continuous Deployment (CI/CD) to furnish technical solutions like data flow diagrams, user flows, and requirement documents.
 - Successfully integrated crucial functionalities such as APIs, payment systems, and authentication protocols in alignment with industry standards.
- May 2021 - Dec 2024 **Technical Team Lead - Android/Flutter**
Invision Custom Solutions Pakistan (Karachi, Sindh)
- Initiated the development of cross-platform applications utilizing Flutter and native android development using kotlin.
 - By employing Agile methodology and Continuous Integration/Continuous Deployment (CI/CD), we have improved our development velocity by 50% and reduced defect density by 40%, resulting in more efficient and higher-quality technical solutions, such as data flow diagrams, user flows, and requirement documents.
 - Improved application performance, conducted user surveys, and stayed informed about industry advancements.
 - Effectively launched numerous applications, garnering favorable user feedback and commendable ratings.
- Aug 2020 - May 2021 **Mobile Application Developer**
Leopards Courier Services Pakistan (Karachi, Sindh)
- Efficiently resolved complex bugs.
 - Applied updates on application modules under the guidance of Senior Software Developers.
 - By exhibiting autonomy in task execution and fostering a collaborative and enthusiastic work environment, we observed a 20% increase in project delivery efficiency and a 15% rise in employee engagement scores, reflecting improved productivity and morale within the team.
 - Conducted automated testing regularly and proficiently developed advanced features.
- Nov 2019 - Jul 2020 **Android Application Developer**
Daily Foods Industries Pvt Ltd Pakistan (Karachi, Sindh)
- Designed user interfaces that engaged multiple senses, delivering immersive experiences.
 - Designed robust, maintainable code for software systems, reducing post-launch bugs by 30% and earning consistent praise from subsequent developers.
 - Collaborated closely with stakeholders to grasp project capabilities and limitations, guaranteeing the delivery of optimal functionality.
 - Formulated precise and succinct code for scalable product development.
- Mar 2019 - Oct 2019 **Junior Android Application Developer**
Red Code Technologies Pakistan (Karachi, Sindh)
- Crafted engaging and immersive user interfaces.
 - Engineered durable and reliable code for core software systems.
 - Collaborated closely with stakeholders to guarantee peak performance.
 - Managed code alterations using version control tools.

Education

2016 - Feb 2020 **Bachelor of Computer Science**
Sir Syed University Of Engineering and Technology Pakistan (Karachi, Sindh)

Languages

Urdu Native	Flutter Backend Development	Android Test-Driven Development	iOS Clean Architecture	AI In-App Purchases
English Advanced	Modular Architecture Agile/Scrum	CI/CD	Git	Jira

Projects

Aqary International AI:

- Developed an AI-powered Flutter package for Aqary International using Dart Shelf for backend services, enabling a modular and scalable AI-driven architecture across multiple applications.
- Integrated Typesense for high-performance structured search and Qdrant vector database for semantic search and RAG-based AI capabilities, enhancing contextual and intelligent responses.
- Implemented ElevenLabs for high-quality text-to-speech (TTS) with Voice Activity Detection (VAD) support, enabling natural and real-time conversational AI experiences.
- Integrated PostHog analytics with AI workflows to track LLM success and failure responses along with full conversation history, improving prompt optimization and AI performance insights.
- Packaged the solution as a reusable Flutter package and managed it through a private local pub deployment using unpub_auth package, ensuring secure internal distribution without relying on pub.dev.

Aqary Investment & Development:

- Developed and maintained the Aqary Investment & Development platform, enabling scalable multi-tenant deployments with consistent performance across brands.
- Implemented BloC state management and Test-Driven Development (TDD) to ensure clean architecture, high code quality, and maintainable business logic.
- Integrated GraphQL APIs with OIDC authentication for secure data access, along with offline support to ensure uninterrupted user experience.
- Implemented Typesense for fast and relevant search, Sentry for real-time error monitoring, PostHog for analytics, and OneSignal for push notifications to improve engagement and system reliability.

Great Fine Home:

- Developed and maintained the Great Fine Home white-label Flutter application, supporting multi-brand deployment with a modular and scalable architecture.
- Applied BloC state management and TDD practices to maintain robust, testable, and high-performance application workflows.
- Integrated GraphQL APIs with OIDC authentication and offline-first capabilities to ensure secure and seamless user experience across environments.
- Implemented Typesense search, Sentry error tracking, PostHog analytics, and OneSignal push notifications to enhance performance monitoring, user behavior insights, and engagement.

Fine Home:

- Developed and maintained the Fine Home white-label Flutter application, enabling scalable multi-tenant architecture with consistent performance and reusable codebase across platforms.
- Implemented BloC state management and Test-Driven Development (TDD) to ensure clean architecture, high code quality, and maintainable business logic.
- Integrated GraphQL APIs with OIDC authentication and offline, ensuring secure data access and uninterrupted user experience in low-connectivity scenarios.
- Integrated Typesense for fast and relevant property search, Sentry for real-time error monitoring, PostHog for analytics insights, and OneSignal for push notifications to improve user engagement.

RadMobile Control:

- Migrated RadMobile Control application from native Android/iOS to Flutter, ensuring seamless transition and ongoing maintenance of cross-platform features.
- Developed reusable Flutter packages and implemented dependency injection to support scalable, maintainable architecture across multiple applications.
- Integrated native Android/iOS SDKs via platform channels for live camera streaming; implemented iOS CallKit for VoIP calling and Android push notifications with actionable buttons for call accept/reject, enhancing real-time communication and user experience.

RadCam Security:

- Developed and maintained the RadCam Security mobile application using Flutter and native Android/iOS, delivering secure and high-performance cross-platform solutions.
- Implemented Clean Architecture with BloC state management and dependency injection, improving code maintainability, scalability, and testability.
- Integrated native Android/iOS SDKs via platform channels to enable real-time live camera streaming within the Flutter application.

My Amptime:

- Developed a time and task management app for Pinnguaq employees, targeting Android, iOS, and web using Flutter.
- Used go_router for navigation, Chopper for API services, and implemented clean architecture with bloc state management.
- Enabled Email, Apple, and Google sign-in, ensured robust security, localization, and dependency injection.
- Created CI/CD pipeline for web deployment, ensuring responsive design and user accessibility.

Tuttarvik:

- The application has transitioned to Flutter and is now accessible on both the App Store and Google Play.
- It utilizes Bloc/Cubit for efficient state management, Chopper for API integration, accommodates English and Inuktitut languages, and enhances navigation through go_router.
- Emphasizing data security as a paramount concern, the design focuses on a user-centric approach.

Animates.io:

- Created a sophisticated application for both Android and iOS platforms utilizing GetX to streamline state management effectively.
- Incorporated go_router to facilitate seamless navigation, enabled in-app subscription capabilities, leveraged Firebase Firestore for chat features, applied Firebase Cloud Messaging for push notifications, and utilized Chopper for robust API services, prioritizing stringent security measures.

Lumino Health Pharmacy:

- Led a team of four developers in overseeing the creation and release of a cross-platform application for Android, iOS, and the web. This involved utilizing GetX and the MVC+repository design pattern.
- Utilized go_router for navigation, and dio for API services, and crafted a bespoke Single Sign-On solution for both the application and web platforms.
- Enforced advanced features such as the Stripe SDK, deep linking, Sentry, Firebase Crashlytics, push notifications, localization, and dependency injection.
- Enforced robust security measures and integrated Sonarqube for comprehensive code quality, security assessments, and static analysis.

Pillway:

- Involved in native Android development for a period spanning 6-7 months, where tasks included the integration of push notifications, Square payment SDK, and various application functionalities.
- Facilitated the transition of both native Android and iOS applications to Flutter, ensuring uniformity in features, and introducing social logins, Firestore, and Stripe SDK.
- Added an auto-login mechanism post-migration, leveraging local storage and keychain to maintain user session continuity.
- Utilized GetX for efficient state management, dio for API services, and go_router for streamlined navigation, emphasizing strong security measures and incorporating deep linking, Sentry, localization, and dependency injection.

SIAT (Shia Tool Kit):

- This application targets Android and iOS platforms.
- This application works on local storage using the floor as a database and uses the provider as a state management and repository pattern.
- It is an Islamic religious application. It shows data as per the device location so the user can see the activities, and get push notifications for Azan and upcoming events as per their timezone.
- Managed audio for listening Quran and other audio files that run in the foreground while interacting with the whole application and much more exciting features

Root & Stem:

- The application is designed for both Android and iOS platforms.
- It utilizes GetX for state management following the MVC + repository pattern.
- Dio is employed for interfacing with API services, while GetX facilitates dependency injection alongside various other compelling features.

Apricart:

- This application is compatible with both Android and iOS platforms.
- The application was initially built using Flutter; my focus was primarily on resolving bugs.
- I addressed issues related to push notifications and refined the app's redirection upon notification interactions.
- I also revamped and optimized various widgets to improve code clarity and bolster application performance.

Karachi Gym Khana:

- The application is compatible with both Android and iOS operating systems.
- Utilized Get X for state management alongside the MVC + repository pattern.
- Integrated push notifications through Firebase Cloud Messaging.
- Enforced stringent security protocols within the applications.
- Employed dio for API service consumption and implemented dependency injection.

Hum Leopards:

- The application is expanded on the Android platform utilizing Flutter.
- Stacked is employed for state management, auto_route for navigation, and dependency injection for building this application.
- Modules within this application include HRMS, CRM, and Courier Task management.
- To record employee attendance, the application utilizes user location tracking within a defined radius.
- Native code integration is implemented to facilitate data transfer from the Flutter app to other native applications.

Publications

LinkedIn: <https://www.linkedin.com/in/muhammad-mashood-siddiquie/>

GitHub: <https://www.github.com/Mashood97>

Medium: <https://medium.com/mashoodsidd97>