SHAHZAIB KHAN

Full Stack Mobile Developer (Flutter & Android)

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OBJECTIVE

To secure a challenging role as a Flutter or Android Developer, leveraging one year of hands-on experience in building scalable, efficient, and user-centric mobile applications. My goal is to contribute to innovative digital solutions using Dart, Flutter, Kotlin, Java, and clean architecture patterns, while continuously growing within a performance-driven team.

SKILLS

- **Programming Languages & Frameworks:** Dart / Flutter, Kotlin / Java & C
- **State Management:** GetX, Provider, Riverpod
- **Development Tools:** VS Code, Android Studio, Postman, Xcode
- **Version Control:** Git (GitHub, GitLab, Bitbucket)
- **CI/CD:** GitHub Actions
- **Local Storage:** SQLite, Shared Preferences, Hive
- **Network Communication:** Dio, HTTP, Websocket, TCP Socket
- **Testing:** UI Testing (Widget testing)
- **Deployment:** Experience with app deployment on Google Play Store and Apple App Store.

PROFESSIONAL EXPERIENCE

EmergSol Solutions - Software House (Onsite) 2023-2024

Role: As a Flutter Developer at EmergSol Solutions, I collaborated with designers and backend teams to integrate advanced features like real-time updates and offline capabilities. I optimized app performance and successfully published multiple applications to the Play Store and App Store.

Key Contributions:
- Developed and maintained robust Flutter and native Android applications, successfully launching and supporting several on major app marketplaces.
- Collaborated seamlessly with cross-functional teams to deliver high-quality software solutions and efficient project delivery.
- Implemented scalable and clean code, adhering to professional standards and best practices, utilizing effective state management solutions.
- Contributed across the entire application development lifecycle, from initial concept and design to deployment and ongoing maintenance.
- Optimized application performance, ensuring responsiveness and a seamless user experience.

EDUCATION

Intermediate in Computer Science (ICS)
Completed: 2023
Focused on foundational concepts in computer science, mathematics, and physics, building a strong academic base.

Diploma in Information Technology (DIT)
Completed: 2021 (1-year program)
Acquired practical and theoretical knowledge in core IT skills, including programming, networking fundamentals, and database management.

PROJECTS

Universal Media Downloader

Developed a robust mobile application for cross-platform media downloading, enhancing user access to digital content for offline consumption.

Technologies: Flutter, Dart, **GetX**, RESTful APIs, Google AdMob, Video Player SDKs, Firebase Remote Config.
- Engineered a high-performance downloading engine leveraging a third-party API for reliable direct link extraction across diverse social media platforms.
- Implemented advanced video player functionalities and optimized media playback performance for a superior in-app user experience.
- Integrated Google AdMob, strategically optimizing ad formats and placement to significantly boost revenue generation.
- Utilized **GetX** for efficient state management, ensuring a highly responsive and performant user interface during complex operations.
- Leveraged Firebase Remote Config for dynamic feature toggling and content updates, enabling agile adjustments without app re-deployment.

Offline Multimedia Player with Advanced Controls

Created a comprehensive offline audio and video player application, providing users with a high-fidelity media playback experience and advanced customization features.

Technologies: Flutter, Dart, **Provider**, Audio/Video Playback Libraries, Digital Signal Processing (DSP), Local Storage.
- Developed a highly optimized local media playback engine supporting diverse audio and video formats with exceptional performance.

- Implemented a custom, multi-band audio equalizer using DSP techniques, offering precise sound tuning for personalized listening experiences.
- Designed intuitive media management features, including dynamic playlist creation and efficient library navigation, enhancing user control.
- Leveraged **Provider** for robust state management, ensuring seamless data flow and UI updates across all media controls.
- Ensured robust background playback and efficient resource management for uninterrupted media consumption.

Secure Credit & Debt Management System

Engineered a secure and intuitive mobile application for personal and small business credit and debt management, providing real-time financial tracking.

Technologies: Flutter, Dart, **Riverpod**, Firebase Firestore, Firebase Authentication, Firebase Cloud Functions.

- Developed a robust and secure data model for managing credit records, debt obligations, and client payment histories with high data integrity.
- Implemented comprehensive user authentication and authorization mechanisms using Firebase Authentication to protect sensitive financial data.
- Utilized Firebase Firestore for real-time, scalable data storage and synchronization, ensuring instant updates across devices.
- Designed an intuitive financial dashboard and detailed transaction logging system, enhancing user control over financial health.
- Incorporated **Riverpod** for reliable and testable state management, ensuring robust data consistency and reactivity.

Tailor's Apparel Management System

Built a specialized mobile application designed to streamline operations for tailors, enabling efficient client management, precise measurement storage, and order tracking.

Technologies: Flutter, Dart, **GetX**, Firebase Firestore, Firebase Storage, Firebase Authentication, Local Persistence.

- Created a comprehensive client management module, securely storing personal details, contact information, and historical order data for seamless access.
- Implemented a highly accurate measurement input system supporting various garment types and custom attributes, ensuring precision in tailoring and fit.
- Utilized Firebase Firestore for real-time synchronization of client and measurement data across multiple devices.
- Designed an intuitive, end-to-end order management workflow, improving operational efficiency from consultation to delivery.
- Applied **GetX** for efficient routing and dependency injection, streamlining app navigation and resource management.

Real-Time Encrypted Chat Application

Developed a feature-rich, real-time messaging application focused on secure and instant communication, offering a seamless and engaging user experience.

Technologies: Flutter, Dart, **Provider**, Firebase Authentication, Firebase Firestore (Real-time DB), Firebase Cloud Messaging (FCM), Firebase Storage, Firebase Remote Config.

- Implemented robust user authentication and registration flows with Firebase Authentication, ensuring secure and private access for all users.
- Built scalable, real-time messaging capabilities utilizing Firebase Firestore, enabling instant message delivery and synchronization.
- Integrated Firebase Cloud Messaging (FCM) for reliable and timely push notifications, enhancing user engagement with new messages.
- Engineered secure data handling for private conversations and media attachments, prioritizing user privacy and data integrity.
- Managed complex UI states and data streams effectively using **Provider**, ensuring smooth real-time updates without performance bottlenecks.

Android Dictionary & Text-to-Speech App

Maintained and enhanced an Android dictionary application with integrated text-to-speech functionality, providing users with quick definitions and audio pronunciations.

Technologies: Android (Kotlin & Java), Android SDK, Text-to-Speech (TTS) API, Local Database (e.g., SQLite).

- Significantly improved application stability and performance through targeted maintenance and code optimization.
- Enhanced the user experience by refining the Text-to-Speech integration for more natural and accurate pronunciations.
- Resolved various bugs and ensured robust compatibility across a wide range of Android versions and device types.
- Proactively refactored legacy Java codebase to modern Kotlin best practices, boosting maintainability and future scalability.

Native Android Map Application

Maintained and optimized a native Android map application, delivering reliable navigation and location-based services for users.

Technologies: Android (Kotlin & Java), OpenMaps SDK, Location Services API, Android Native Development.

- Achieved significant improvements in map rendering speed and overall performance through advanced data loading and display optimizations.
- Integrated and meticulously maintained the **OpenMaps SDK** along with various mapping APIs to ensure highly accurate and up-to-date map data.
- Implemented custom interactive map markers and dynamic overlays, enriching user experience and information visualization.
- Ensured exceptionally efficient and precise real-time location tracking, providing a fluid and dependable navigation experience.