

AAZIQ ALI SHAH

MOBILE APPLICATION DEVELOPER | BLE & CONNECTED DEVICES

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PROFILE

Flutter and Dart developer with 3+ years working with SleepSanity LLC, delivering complete Android/iOS app functionality from user interfaces and data flows to connected-device control. Strongest in Flutter, with additional Kotlin/Swift native integration, BLE protocols, Firebase and AI model integration experience.

TECHNICAL SKILLS

Flutter and Dart: Android/iOS development, state management, asynchronous programming, app architecture

Native integration: Kotlin (Android), Swift (iOS), platform-specific app integration

Connected devices: BLE/GATT, Bluetooth Classic/EDR, binary command protocols, firmware-update integration

Data and AI: Firebase Authentication, Cloud Firestore, Cloud Storage, REST APIs, SQLite, AI model integration

PROFESSIONAL EXPERIENCE

Flutter Developer | SleepSanity LLC

Jun 2023 - Present

SleepSanity: mobile companion app controlling sleep-device routines, audio, light intensity and lens tint.

- Built complete app functionality: authentication, device connection, saved routines, evening/morning sequences and povernaps, with Firebase persistence and Provider state management.
- Implemented BLE scanning, GATT discovery, characteristic writes/notifications and reconnection; encoded device commands for brightness, tint and volume, suppressing redundant control writes.
- Developed timed routine phases synchronising audio with gradual light/tint/volume transitions, supporting pause and manual overrides; integrated background audio playback and lifecycle handling.
- Implemented app-side firmware updates and collaborated with hardware engineers on Bluetooth protocols; maintained signed Android builds and resolved Firebase/Gradle configuration issues.

Founder & CEO | HashSync

Oct 2024 - Present

Founded a software-development business alongside hands-on mobile and connected-device work.

SELECTED PROJECTS

SleepSanity Accelerometer Diagnostics | Flutter, BLE

Built raw BLE packet capture and timed throughput diagnostics; implemented sampling-rate and +/-2g to +/-16g range controls. Adapted GATT UUIDs and connection-priority requests while investigating data-delivery issues with hardware engineers.

Lost & Found Pakistan | Flutter, Firebase, AI Integration

Integrated facial-recognition and description-matching models to identify related reports. Built Firestore search/filtering, map-based location selection, image uploads and real-time text/image messaging.

Intrusion Detection System | Flutter, REST APIs, SQLite

Built dashboard, alert, log and report interfaces; integrated detection/training endpoints through HTTP/JSON and implemented timestamped SQLite logs and chart-based reports.

Actiband FH Desktop Sleep Analysis | In development

Developing an accelerometer testing and actigraphy application. Planned scope: BLE/USB acquisition, epoch-based sleep/wake scoring, sleep metrics, actograms, head-position analysis and PDF/CSV exports.

EDUCATION

BS Computer Science | PMAS Arid Agriculture University

2020 - 2024

Rawalpindi, Pakistan | CGPA: 3.25/4.00