NIHAS NIZAR

SENIOR ANDROID ENGINEER

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PROFESSIONAL SUMMARY

Senior Android Engineer with **10+** years of experience in Android application and SDK development, with additional expertise in **iOS** development, mobile architecture, and real-time system integration. Hands-on experience in **connected vehicle solutions**, including **BLE-based vehicle communication**, **EV diagnostics**, **keyless entry**, and **real-time telemetry**. Experienced in owning technical roadmaps, driving architecture decisions, collaborating with cross-functional teams, and delivering scalable, reliable applications. Strong background in secure communication protocols, asynchronous processing, performance optimization, CI/CD, and release management.

CORE TECHNICAL SKILLS

Android: Kotlin, Java, Android SDK, Jetpack Compose, Custom Views, Canvas, Android lifecycle, background services

Architecture & concurrency: MVVM, Clean Architecture, modular design, Coroutines, Flow, multithreading, dependency injection (Hilt)

Performance & quality: UI rendering optimization, low-end device performance, memory/ANR profiling, Crashlytics, JUnit, Espresso, Mockito/MockK, Gradle, Azure DevOps CI/CD

Networking & security: REST APIs, Retrofit/OkHttp, MQTT, Socket.io, UDP/OSC, BLE, intermittent-network resilience, AES-256, public / private-key cryptography, authentication

Leadership: technical roadmap, design reviews, code reviews, cross-functional planning, production issue resolution

WORK EXPERIENCE

Senior Android Engineer / Innovation Software Mobile Engineer

Music Tribe | Feb 2022 – Present

- Build high-performance Android applications using Kotlin, Jetpack Compose, Coroutines, and Flow, developing complex interactive UI components including faders, meters, PEQ/GEQ, knobs, and visualizations.
- Architect real-time UDP/OSC communication and high-frequency state-processing pipelines for digital audio hardware.
- Design modular architecture and reusable UI components, optimizing rendering performance, responsiveness, and maintainability.
- Lead technical design, code reviews & feature delivery in collaboration with product, QA, firmware & engineering teams.

Lead Android Developer

Intellicar Telematics | May 2017 – Feb 2022

- Developed Android applications and reusable SDKs for connected vehicles, EV diagnostics, keyless entry, fleet tracking and telematics, including GPS-based maps, dashboards and real-time telemetry visualizations.
- Implemented secure Bluetooth/BLE communication protocols with encrypted data transfer and reliable background connectivity.
- Implemented inter-process communication (IPC) mechanisms using Binder and AIDL for service-based communication and integration with Android platform components.
- Optimized connectivity, battery consumption, data synchronization and real-time vehicle telemetry processing.

Senior Android Developer | Aguai Solutions | Dec 2016 – Apr 2017

- Developed and maintained native Android applications in Java, integrating REST APIs and resolving Android platform-specific defects.

Android Developer | Snyxius Technologies | Sep 2014 – Dec 2016

- Shipped and maintained Android applications; collaborated with product and engineering teams on features, releases and mobile modernization.

EDUCATION	Links
B.Tech, Computer Science Mount Zion College of Engineering, Kerala | 2009–2013	Playstore: https://play.google.com/store/apps/developer?id=Nihas+Nizar&hl=en_IN Portfolio: https://nihas.github.io/ Linkedin: https://linkedin.com/in/nihas-nizar GitHub: https://github.com/nihas

SELECTED ENGINEERING PROJECTS

MXMix – Real-Time Android Control Platform

Kotlin | Java | Jetpack Compose | Coroutines | StateFlow | Canvas | UDP/OSC
https://play.google.com/store/apps/details?id=com.musictribe.mxmix

- Lead Android architecture, technical planning and end-to-end delivery of a production application supporting multiple Behringer and Midas digital mixer families.
- Architected reusable connection-management and OSC-over-UDP frameworks supporting device discovery, heartbeat monitoring, connection recovery and continuous real-time hardware synchronization.
- **Optimized low-end device performance** by replacing a performance-intensive View hierarchy with custom Canvas-based rendering for real-time audio meters, improving UI responsiveness.
- Implemented concurrent networking and parallel initialization workflows to reduce initial loading latency and maintain responsive interactions during high-frequency data processing.
- Designed model-specific abstraction and data-binding layers supporting hundreds of hardware parameters, enabling reusable UI components and maintainable application architecture.

MX-Q – Production Android Application | 500K+ Downloads

Android | Java | Real-Time Networking | Firebase Crashlytics | Reliability
https://play.google.com/store/apps/details?id=com.behringer.android.control.app.x32q

- Develop and maintain a production Android application with **500K+ Google Play downloads**, providing real-time mixer control and personal monitoring capabilities.
- Support production stability through Firebase Crashlytics, crash investigation, debugging and reliability improvements.
- Leverage reusable networking architecture for device discovery, connection lifecycle management and continuous hardware-to-app state synchronization.

IntelliBlu App + SDK – Secure Android Communication Framework

Android SDK | Kotlin | BLE | AES-256 | Cryptography | Modular Architecture

- Designed and developed a reusable Android SDK enabling secure communication between mobile applications and embedded electric vehicle hardware.
- Built a custom binary communication protocol supporting packet construction, validation, chunked data transmission, parsing and reassembly.
- Implemented AES-256 encryption and public/private key cryptography for secure key exchange and protected communication.
- Designed independent modules for connectivity, encryption, protocol processing and application-facing APIs, improving maintainability and reuse.

Meetingbox – Native Mobile Platform Modernization

Kotlin | Swift | MVVM | Coroutines | Retrofit | Socket.IO | Starscream
https://play.google.com/store/apps/details?id=com.meetingbox.app
https://apps.apple.com/in/app/meetingbox/id1320874007

- Served as technical owner for Android and iOS development, leading architecture, implementation planning and technical decisions.
- Led modernization of a legacy PhoneGap/Ionic application into native Android and iOS applications, improving the maintainability and extensibility of the mobile architecture.
- Integrated REST APIs and real-time backend services while collaborating with product and engineering teams to preserve existing business workflows.