ROSHAN PATEL

Ahmedabad, Gujarat, India • roshan.borana@gmail.com • +917622981815

About

Android application developer with 6 years of experience in building, integrating, testing and supporting applications in mobile and tablet devices. Delivered efficient, scalable, and user-friendly applications that meet client requirements. Strong logical thinking and ability to adapt to new technologies and frameworks.

Work Experience

eInfochips(An Arrow Company)   Ahmedabad, Gujarat
Senior(Digital) Engineer, Android   August 2023 – Present

- Contributed to the Camera surveillance enterprise application and delivered new features single handedly under expected time with fewer bugs.
- Developed Live/Recording based streaming services using webRTC, signaling using MQTT and WebSocket, multithreading for REST services and data caching.
- Customized webRTC VideoFrame 2D rendering(using opengl es) to maintain various frame resolutions in device aspect ratio(LetterBoxing and PillarBoxing). Converted rendered frame on gpu into Android Bitmap. Applied Digital Zoom feature on video content.
- Integrated c++ Dewarp image processing library using NDK. Major accomplishment is to achieve 10 fps on a 3k resolution frame. Converted incoming webRTC frames into Planar i420 as an input to the library and rendered results on 4 quad(Dewarped result). Shared GL textures/resources between two different EGL threads(webRTC surface and Dewarp GLSurfaceView). Later optimized rendering both inside one EGL thread Surface.

TECHNOSTACKS INFOTECH PVT. LTD.   Ahmedabad, Gujarat
Android Engineer, Flutter   Sept 2018 – July 2023

- Collaborated with cross-functional teams to design and implement innovative UI/UX features for Android applications, resulting in a 30% increase in user satisfaction.
- Conducted thorough testing and debugging of Android apps, ensuring seamless user experience and adherence to company standards.
- Contributed to the development of new features and enhancements to existing applications, resulting in a 15% increase in overall app performance and a 100% increase in app downloads. Contributed and added new features to the application used by more than 10k users.
- Participated in software development individually and in a team, supporting a wide range of devices and operating system versions.
- Lead a small team of developers and trained 4 trainees, conducted more than 20 technical interviews to hire new talent.

Projects

Camera Surveillance Enterprise application
Streaming based android application using webRTC, MQTT, web-socket. Display real time events detected by the camera. Configure and handle all camera settings like resolution, flip, rotation, etc.

QuickScan
Document detection app used by more than 10k users. Find document edges and edit images in real time efficiently.

SmartPro
Provides kiosk solutions to enhance security by restricting access to other mobile features/applications. NDK implementation increased processing speed by 5%.

DeliverEnd
Collaborated on a Delivery as a Service (DAAS) application, leveraging Jetpack Compose for building a rich user interface and integrating with third-party communication services by Twilio.

Hearing Aid Flutter plugin
Designed a Flutter plugin utilizing native SDK for a hearing aid-based device, ensuring compatibility and support for both Android and iOS platforms.

Lief
Collaborated on the development of an app that communicates with a health tracking device. Adapted elegant and materialized UI components, custom views, and advanced animations for enhanced user experiences.

Elotec(Aspect Tool B, Aspect View)
Built utility software for a large organization to edit configurations and read logs of their IoT product, handling firmware upgrades via OTA. More than 500+ downloads.

Education

AHMEDABAD INSTITUTE OF TECHNOLOGY   Ahmedabad, Gujarat
Bachelor of Engineering(Information Technology)   June 2018

Skills & Interests

Programming languages: Java, Kotlin, c++, Dart
Skills: Github actions CI/CD, Rest Services, Sqlite/Room/Realm/ObjectBox, Firebase, GraphQL, Dependency Injection, c++ with Android NDK integration and JNI, IOT integrations(BLE/WIFI/MQTT), Multithreading programming concepts, Coroutines, Arcore, Tensorflow lite, Constraints, Motion layouts and custom UI, Unit testing, Flutter, Jetpack Compose, Opengl, MVVM, MVP, Agile methodologies, Git, Opengl ES, webRTC, WebSocket.
Language: English(Fluent), Hindi(Native)
Awards: Employee of the Year(3 Times)
Achievements: Less integration time by writing a BLE library for the organization, Solved 100+ DSA problems