Vishal Singh

Software Engineer - Android

vs1292959@gmail.com | +91-9877468527 | Github | LinkedIn

Summary

Dedicated and skilled Android Developer with around 4 years of hands-on experience in designing and implementing robust applications within the Android framework. Adept at troubleshooting and debugging with a comprehensive understanding of Android architecture, services, and frameworks.

Skills

Android | Java | Kotlin | C | Rust | MVVM | ROOM | Retrofit | Jetpack | Compose | AIDL | Binder | IPC Mechanisms| AOSP | AAOS | Framework | Ktlint | Detekt | Espresso | Mockito | JUnit | Git | Gerrit | Dagger | Hilt | JIRA | Data Structures | High Level Design | Low Level Design | OOPs | HMI | IVI | CI/CD | C++ | HAL | SOLID | Agile

Work Experience

Engineer - Software & ADAS   *Aug 2024 - Present*
Renault Nissan Technology And Business Centre India(Bangalore, Karnataka)

- Worked on AudioFx App for Renault.
- Working on Android Audio for Renault SDV project.
- Working on Vehicle Sound Pedestrian feature for Rapid Boot VM in SDV completely in Rust.
- Worked on Audio Effects App of Renault.
- Working closely with Google to incorporate High Availability Renderer Framework into Renault's SDV project.
- Working closely with other vendors such as Qualcomm and QNX in order to use their library in Renault's SDV project for various audio related use cases.

Software Engineer II   *September 2021 - July 2024*
HARMAN (Bangalore, Karnataka)

- Worked on **Android Application** development for **Nissan** project. Designed, developed, and maintained multiple Android applications for Car.
- Worked end to end on a Radio application built on top of the AAOS Radio app . Handled database and caching along with features such as adding or removing a radio station as favorite using **ROOM** library.
- Worked on an Instrument cluster application handling the application layer code using Kotlin following **MVVM** architecture and using **Jetpack Navigation** component.
- Worked on implementing Navigation and Integrating Google Map Data integration to display information such as turn card in instrument cluster display.
- Optimized app performance, through code refactoring and debugging using **detekt, ktlint,** android profiler.

- Wrote over 300 unit tests and UI tests using libraries including **JUnit, Mockito, Espresso and MockK.**
- Developed customized versions of existing AOSP features such as ClusterRendering, Custom Input Event, Radio etc to match client's requirements.

Education

B.Tech-Computer Science and Engineering | CGPA 8.3/10	**2017-2021**
Lovely Professional University, Jalandhar, Punjab	

XII (CBSE) | Aggregate 74%   **2015-2017**
Assam Rifles Public School, Jorhat, Assam

X (ICSE) | Aggregate 84%   **2005-2015**
Carmel School, Jorhat, Assam

Personal Projects

TMDB Client App [(Source code)](#)
- TMDB Client App, is a library of movies, tv shows and artists.
- The data is fetched from themoviesdatabase.org api. Used MVVM architecture with best coding practices.
- Other components used in the app are android lifecycle components, Room, Retrofit, Glide, Dagger.

NewsPal App [(Source code)](#)
- NewsPal is a native android news app, made using Single Activity multiple fragments and MVVM architecture.
- Its UI elements include recyclerview, cardview, navigation drawer, bottom navigation view. Used libraries such as glide, retrofit, gson.
- Users can read news across the world across all major categories , share it with friends and save it to read it offline, pull down to refresh.

Interests

Reading | Sports