



Shubham Amrute

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● ABOUT MYSELF

AOSP Tech Lead with expertise in eCockpit systems, Android HAL development, navigation technologies, and Android app development. Skilled in leading technical projects, system integration, and delivering high-quality automotive software solutions

● WORK EXPERIENCE

FEV INDIA – PUNE, INDIA

SPECIALIST ENGINEER – 01/07/2024 – CURRENT

Acting Feature Owner for Navigation for Saudi-based Auto OEM

- Defining System Level Requirements and Architecture design for HERE Navigation for AAOS14.
- Follow up with Software suppliers for technical queries, architecture, design, deployment and interaction with other features.
- Follow up with HMI Design team and Testing team for HMI design queries and follow up with Testing team for First level analysis of defects, along with assigning and transferring defects to appropriate teams.

Acting as Technical Lead - Design and implementation Android infotainment system applications using AAOS

- Lead a team of 8 engineers which developed multiple Custom Android Java Framework services required by Android App team.

- Lead the Development of FEV Notification Service which displayed customized FEV Notifications on HVAC Updates, Navigation Updates, Cluster Tell tales received from Vehicle HAL and SoundHound voice assistance updates.

- Lead the Development of FEV Car Connected Mobile App for sending and receiving updates using firebase on Android IVI.

- Developed a custom FEVCarService in Java for interaction between the FEV Car Connected Mobile App and Google CarService in AOSP to receive and send updates from Mobile to AAOS stack.

- Developed FEVOpenAI service to integrate OPENAI for customizable dashboard (Cluster and Android SystemUI) using mood detection based on voice commands, Providing a custom welcome message on every boot based on different prompt messaging parameters.

- Integrated OPENAI TTS Engine to empower natural conversation with the end user.

- Developed Multi User Personalization Service which persists a set of user preferences like volume, display brightness, language, settings etc, The service acted as an interface between the FEVLauncher and the Customized FEVSystemUI from which the user profile is changed.

- Developed a Cluster in Android as a POC for 2 wheelers which used CarPropertyManager and CarService to receive updates from Vehicle HAL.

- Designed and Implemented UI/UX and Figma for all the Customized FEV HMI Applications.

Additional Activities:

- Contributed to hiring for Android Platform team through technical evaluation and Interviews.
- Provided technical inputs for multiple RFQs and solution proposals.
- Participated in client-facing technical demos showcasing Android Automotive capabilities

FEV INDIA - IVECO – PUNE, INDIA

SPECIALIST ENGINEER – 01/02/2023 – 01/06/2024

NIGEL

- Contributed to the development of an infotainment system featuring a Crystal-based backend and a Vue.js based frontend.
- Implemented key features such as multi-language support and EV-specific trip data calculation.
- Focused on enhancing user experience and functionality for electric vehicle use cases.

FEV INDIA – PUNE, INDIA

PROJECT ENGINEER – 23/02/2022 – 01/02/2023

Project: SDV Internal Project

- Developed and maintained the AAOS Android 12 based platform for the NXP i.MX8Q board.
- Lead the team of 12 engineers for the development of an Android-based In-Vehicle Infotainment (IVI) system for an SDV (Software Defined Vehicle) demo.
- Contributed to the complete IVI stack, including Navigation, HVAC, and Media applications.
- Implemented instrument cluster using Qt.
- Lead a team of 2 engineers which defined/designed the UI/UX and Figma for the Internal project.

 **KPIT – PUNE, INDIA**

SENIOR SOFTWARE ENGINEER – 01/04/2020 – 01/02/2023

BMW Android development IDC23

- Developed and implemented the Vehicle HAL to expose vehicle property data to the application layer.
- Built a custom Sensor HAL for BMW-specific requirements and integrated it with the Android framework.
- Created a test application named VehicleAPITestApp to verify vehicle property interactions by setting and reading values.
- End to End Testing done with VCar a custom tool to test End to End SomElP functionality with Vhal.
- Developed the underlying framework to support custom HAL functionality.
- Implemented BMW Early HMI Java Service for transition of Rear View Camera from Node0 to Android.

 **KPIT – PUNE, INDIA**

SOFTWARE ENGINEER – 16/03/2019 – 16/03/2020

Digital E-Cockpit (Consumer Electronic Show)

Project: Maintenance of Android Open Source Project for MediaTek Platform.

- Customized the Android System UI to align with the organisation branding and visual theme.
- Implemented features to display navigation route directions directly on the status bar.
- Integrated media playback information, including album art and song details, into the status bar.

 **KPIT – PUNE, INDIA**

SOFTWARE ENGINEER – 16/01/2018 – 16/02/2019

Android IVI (Consumer Electronic show)

Project: Maintenance and Optimization of the Android Open Source Project (AOSP) for the Texas Instruments (TI) Platform.

- Developed a custom Android navigation application for an automotive infotainment system.
- Integrated and utilized the TomTom SDK to implement navigation functionalities.
- Maintained and optimized the AOSP build for the TI platform, focusing on improving system boot time.

EDUCATION AND TRAINING

14/02/2017 – 14/08/2017 Pune, India

C-DAC IN MOBILE COMPUTING ACTS-CDAC

Website <https://www.cdac.in/index.aspx?id=acts>

04/04/2012 – 01/06/2016 Gondia, India

BATCHLEOR'S IN INFORMATION TECHNOLOGY MIET GONDIA

LANGUAGE SKILLS

Mother tongue(s): **HINDI**

Other language(s): **ENGLISH | MARATHI**

ADDITIONAL INFORMATION

Technical Skills

- Programming - Java, Kotlin , C++,Linux, Git, Gerrit, Docker, Jenkins, JIRA, Confluence.

- Domain - Android Platform(6.5 yrs) for Automotive Infotainment.
- Tools: Android Studio, Visual Studio Code, Ms Office, Jira, Git, Gerrit, Jenkins, Docker, Zuul, QT Creator.
- OS: Linux-Ubuntu, Windows.