




DASARADHA RAMA SAI YARLAGADDA

ANDROID APPLICATION DEVELOPER

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PROFESSIONAL SUMMARY

High-performing Android Developer with **3+ years of experience** building and scaling mobile applications for a combined user base of **10 million+**. Expert in **Kotlin, Java, and Jetpack Compose**, with specialized experience integrating AI/ML features using **ML Kit and OpenCV**. Proven track record in App Store Optimization (ASO), reducing ANR rates by optimizing threading models, and maximizing monetization through AdMob/AppLovin mediation. Currently leading development and performance optimization for top-charting apps like *FaceSwap Magic* and *AI Baby Generator*.

TECHNICAL SKILLS

Languages Kotlin, Java, XML.	Android Modern Tech Jetpack Compose, Coroutines, Flow, LiveData, ViewModel, Navigation Component, WorkManager.
Architecture & Patterns MVVM, Clean Architecture, Repository Pattern, Dagger Hilt.	Networking & Storage Retrofit, OkHttp, Room Database, SQLite, JSON.
AI & Third-Party SDKs Google ML Kit, OpenCV, Firebase (Analytics, Crashlytics, Remote Config), AdMob, AppLovin Mediation.	Tools & CI/CD Git, GitHub, Jenkins, Bitbucket, Android Studio, ProGuard/R8.

PROFESSIONAL EXPERIENCE

Android Application Developer (Lead), Yalavarthi Software Solutions Pvt. Ltd. 08/2022 – Present

Role Overview :
Serving as the Lead Developer for the company's flagship mobile division. Responsible for the full Software Development Life Cycle (SDLC) of high-traffic applications, managing architecture, code quality, and release cycles for a user base exceeding **10 million**.

- Key Responsibilities & Leadership :**
- Architectural Overhaul:** Defined and implemented **Clean Architecture** with MVVM across all new projects, decoupling UI logic from data layers to improve testability and scalability.
 - Performance Engineering:** established performance benchmarks for app startup times and frame rendering. utilized **Android Vitals** to monitor stability, successfully keeping crash rates below **1%** across all production apps.
 - Monetization Strategy:** Architected a hybrid monetization strategy using **AdMob and AppLovin mediation**. Optimized waterfall configurations and floor prices to maximize **eCPM** and fill rates, boosting ad revenue while preserving user retention.
 - Release Management:** Owned the release pipeline for the Google Play Store, ensuring 100% compliance with strict policy updates (Target API levels, Data Safety) to prevent app rejections.

- **Mentorship:** Conducted code reviews and mentored junior developers on Kotlin best practices, guiding the team's transition from imperative XML layouts to declarative **Jetpack Compose**.

KEY PROJECTS & TECHNICAL CASE STUDIES

FaceSwap Magic (5M+ Downloads)

- **Role:** Lead Developer & Architect
- **Tech Stack:** Kotlin, MVVM, Coroutines, Flow, ML Kit, Dagger Hilt.
- **Overview:** A flagship entertainment application allowing users to swap faces in real-time photos and videos with high precision.
- **Technical Challenge: The ANR Crisis**
The application initially suffered from high **ANR (Application Not Responding)** rates due to heavy image processing and bitmap decoding occurring on the main UI thread.
- **The Solution:**
 - Re-engineered the threading model using **Kotlin Coroutines and Flow**.
 - Offloaded all bitmap decoding and ML inference tasks to `Dispatchers.Default` and `Dispatchers.IO` .
 - Implemented efficient memory caching to handle high-resolution images without triggering `OutOfMemoryError`.
- **The Impact:**
 - Successfully eliminated main-thread blocking operations.
 - Reduced ANR rates significantly, bringing the app back into compliance with **Android Vitals** benchmarks and stabilizing the Play Store rating.

AI Future Baby Generator (1M+ Downloads)

- **Role:** Lead Developer
- **Tech Stack:** Kotlin, Jetpack Compose, ML Kit, Firebase.
- **Overview:** A viral AI application that predicts a baby's future face based on parent photos using generative algorithms.
- **Technical Challenge: UI Complexity & Rendering**
 - The app required a complex, dynamic UI to display generated results, and the legacy View system was causing layout bugs across different screen sizes.
- **The Solution:**
 - Spearheaded the development using **Jetpack Compose** for the entire UI layer.
 - Integrated **ML Kit** for accurate facial feature blending (eyes, nose, jawline) to ensure natural-looking results.
 - Optimized the image processing pipeline to achieve low-latency inference, reducing the wait time for users.
- **The Impact:**
 - Achieved **1 Million+ downloads** with consistent user engagement.
 - Reduced boilerplate code by **30%** compared to the XML approach, making the codebase easier to maintain.

AI SnapDance

- **Role:** Lead Developer
- **Overview:** An AI-driven animation app that maps user facial expressions onto dancing bodies synced with music beats.
- **Key Technical Contributions:**
 - **Audio-Sync:** Integrated deep learning models to map facial expressions to music tempo dynamically.
 - **Growth Hacking:** Leveraged **Firebase Remote Config** to run A/B tests on the user onboarding flow.
 - **Result:** The A/B tests and optimization led to a direct **20% surge in Daily Active Users (DAU)** after launch.

Picturize

- **Role:** Android Developer
- **Overview:** A feature-rich photo editing tool with custom filters and background removal.
- **Key Technical Contributions:**
 - **Legacy Migration:** Led the strategic migration of legacy UI components to **Jetpack Compose**, improving rendering performance.
 - **Cloud Integration:** Implemented Firebase Cloud Storage for saving and sharing high-quality edited images.
 - **Features:** Delivered 50+ editing filters and AI-based background removal tools.

EDUCATION

- B.Tech in Computer Science & Engineering**, *Sri Mittapalli College of Engineering (JNTUK)* | *Graduated: 2023*
- **CGPA:** 6.6
 - **Key Coursework:** Mobile Application Development, Data Structures, Object-Oriented Programming.

KEY ACHIEVEMENTS

- **10 Million+ Users:** Successfully scaled a portfolio of apps to a combined user base of over 10 million.
- **Top Rated:** Maintained **4.3+ star ratings** on the Google Play Store for flagship applications through consistent updates and bug fixes.
- **Crash Free Users:** Maintained a 99.8% crash-free user rate across all production apps by actively monitoring Firebase Crashlytics.