

Deeraj Jagarlamudi

+1 346-281-5393 | deeraj.jagarlamudi10@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Android engineer with three years of experience and a master's degree from the University of Texas. Re-architected application using MVVM and SOLID principles, increasing daily active users by 25%. Integrated machine learning models (TFLite) for real-time personalization and predictive content ranking. Boosted app performance by 30% by optimizing background tasks using Kotlin Coroutines.

TECHNICAL SKILLS

- Languages** - Kotlin, Java, Python, C++, JavaScript, SQL, Swift
- Android & UI** - Android SDK, Android Studio, Jetpack Compose, Material Design, XML layouts, RecyclerView, ExoPlayer, Coil, paging3, Datastore
- Architecture & State** - MVVM, MVP, MVC, Cle Architecture, Coroutines & Flow, Hilt, WorkManager, Room
- Networking & Data** - Retrofit, OkHttp, GraphQL (Apollo), Firebase Realtime/Firestore, FCM, Websockets, Realm
- Testing & Quality** - JUnit 5, Espresso, Mockk, Robolectric, LeakCanary, Android Profiler, Systrace
- DevOps & Release** - Git, Google Play Console (internal & staged rollouts), CI/CD (CircleCI & Jenkins), Firebase Crashlytics, Firebase Analytics

WORK EXPERIENCE

Android Developer | Horizon Softech, Alpharetta, GA, USA | [App Link](#) **August 2024- Present**

- Developed Android application architecture utilizing **MVVM** and **SOLID principles**, deployed real-time order tracking and push notifications, reduced data latency by 300ms and improved user experience.
- Boosted image handling by using **Coil** for asynchronous loading within **Jetpack Compose**, which improved the app's scrolling performance by 25% on low-end Android devices.
- Introduced on-device **machine learning models (TFLite)** for the improvement of real-time personalization and adaptive UI, this cut down on app size by 14MB and reduced customer complaints by 20%.
- Implemented **NDK** development with **C++** to create an image optimization pipeline that processed 5,000+ images per hour.
- Leveraged **Retrofit** for efficient, type-safe **RESTful API** data fetching, optimizing client-server communication.
- Integrated **Firebase Cloud Messaging** to provide real-time order status updates, resulting in 300+ five-star reviews.
- Collaborated with Team-Lead to enhance application stability through implementing **Android Profiler** to identify and resolve memory leaks, decreasing crashes by 25% and improving overall app responsiveness for 90% of users.
- Practiced **TTD** with **JUnit4** and **Espresso**, by writing tests pre-implementation to drive reliable feature delivery.

Android Developer | Wipro, Bangalore, KA, India | [App Link](#) **January 2021 - December 2022**

- Piloted a travel application, managing the whole **Software Development Lifecycle**, and designing an intuitive **UI**.
- Championed **API** standardization and **GraphQL** schema design, leading to a 35% decrease in cross-platform inconsistencies and decreased the need for platform-specific code by 20%.
- Refactored asynchronous operations with **Kotlin Coroutines** and Lifecycle-aware components, increasing overall app responsiveness by 30% and reducing average background task completion time by 15%.
- United with **product** and **marketing** teams to redesign the mobile onboarding process, improving retention and user experience by 40%.
- Fortified background processing capabilities via **WorkManager**, resulting in consistent data synchronization and reducing latency by 20%.
- Fortified application by with **OAuth 2.0** protocol utilizing **Android keystore** system to secure user credentials.
- Cached booking details locally using **Room**, allowing users to access flight and hotel tickets offline.
- Launched continuous integration pipelines with **SonarQube** and **LeakCanary**, identified and resolved 200+ code defects and memory leaks, improving application stability by 60% and user ratings by 1.2 stars.
- Instrumented critical flows with **Systrace & LeakCanary** and eliminated 95% of memory leaks and resolved **Lint** warnings.

Software Development Engineer | Myntra, India | [App Link](#) **March 2020 - December 2020**

- Optimized product listing and search functionalities, improving query response times by **20%** and enhancing user discovery of relevant items within the shopping catalog.
- Developed a secure in-app payment gateway integration, streamlining the checkout process and contributing to a **10% increase in completed transactions**.

EDUCATION

Master of Science in Information Technology

University of Texas, Dallas (GPA:3.84/4)

January 2023 - December 2024

Bachelor of Technology, Computer Science and Engineering

Acharya Institute of Technology

August 2017 - August 2021

PROJECTS

RSS Newsfeed App | Android Studio, Compose, Room, SqlCipher, MVVM | [App Link](#)

- Architected a reactive, offline-first news application using **MVVM**, **Hilt**, and **Kotlin Flow**, ensuring seamless data persistence and synchronization that guaranteed UI responsiveness and full functionality even without a network connection.

FeastIT- Vendor Hub | python, Flask, React, Firebase, OAuth 2.0, REST APIs | [App Link](#)

- Engineered a **full-stack** vendor portal using a **Python** and **Flask backend**, designing a **MySQL** database and **RESTful APIs** to manage vendor authentication, dynamic menu creation (CRUD), and real-time order tracking. Developed a responsive and interactive frontend with **React**, and **TailwindCSS**, creating a comprehensive dashboard for vendors.