Shubham Chouhan

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PROFESSIONAL SUMMARY

Experienced Android developer specializing in performance optimization and writing efficient, scalable code. Proficient in the development and product lifecycle, with a keen understanding of aligning technical solutions with business objectives. Skilled in collaborating with cross-functional teams to deliver high-quality products. Passionate about enhancing user experiences through innovative solutions and driving continuous improvement in development processes.

EDUCATION

B.Tech. in Electrical Engineering, IIT Kanpur	*July 2015 – April 2019*
Intermediate, RBSE	*May 2013 – July 2015*

TECHNICAL SKILLS

Android Development : Kotlin, Java, XML, Android Studio, Compose, Retrofit, Hilt/Dagger, Room, Coroutines
DevOps and Tools : Git, Gradle, Postman, Charles, Firebase, Superset

EXPERIENCE

Software Developer 3 | *Glance*   *Jan 2023 – Present*
 – Designed, improved, and implemented **Analytics** in multiple Android projects, significantly enhancing session telemetry metrics. Revamped impression and click analytics in an existing SDK project, optimizing event tracking and simplifying analysis in Superset. Implemented real-time analytics for the Spaces project, managing networking, micro-batching, and server synchronization using gRPC. Architected and integrated analytics for the WallpaperArt app, supporting event sending to both the Glance server and Firebase Analytics
 – Designed and implemented the logic for **IPL widget** , providing live match updates along with content widgets on the **lock screen** . Coordinated with Xiaomi to add support for various widget formats on the lock screen and communicated updated statistics. Developed a system to handle live IPL updates in a small widget and display Glance content in a medium widget, with a long widget as a fallback option
 – Worked with a team on **AOSP** to deliver in-house RemoteView widgets, supporting various widget types and modes on the lock screen. Collaboratively developed an SDK to facilitate communication between lock screen actions and the app, ensuring seamless interaction in both directions
 – As part of the innovation team, explored DreamBooth and ML models to develop an avatar generation app. Utilized **ML Kit and Camera API** for face detection, capturing various facial angles of users with prompts and hints to ensure successful face capture and enhance avatar generation quality. Added configurable support for both image uploads from the device and face scans for the same purpose
 – Developed Myra, a chatbot, leveraging **Bing and GPT APIs** to serve as a chat assistant on the lock screen. Incorporated **Compose animations** for smooth loading and rendering of user chats and responses, seamlessly fetched from a database via a flow handling loading bounce getting updated with response from api

Software Developer 2 | *Glance*   *July 2021 – Dec 2022*
 – Refined **glance rotation** and changing algorithms on the lock screen to be configurable, effectively managing card repetition scenarios during low battery mode. Implemented a time frequency cap to ensure the optimal delivery of the next card or ad based on priority and various conditions
 – Enhanced the latency and success rate of Glance data by merging two Glance data calls. This approach simultaneously managed Glance removal, updates, and additions. Utilized **coroutines** for concurrent execution, marking successful Glances for caching while rejecting faulty ones via an exception handler
 – Fixed legacy bugs and memory leaks, improving overall performance and optimizing app size and smoothness with strong **debugging skills**
 – Enhanced performance by optimizing glances download and cleanup code, resulting in improved memory management and more efficient cleanup processes
 – Improved engagement metrics by **persisting the lock screen glance** app into the home screen post-unlock and integrated app shortcut feature handling app lifecycle with launch mode
 – Provided mentorship to junior team members, offering guidance as they developed professionally and reviewing their PR's. Additionally, supported other teams that depended on our platform, promoting synergy and enhancing project efficiency
 – Responsible for releasing and sdk integration with OEM. Collaborated with OEMs to integrate a tappable ribbon on the lock screen, expanding the clickable area and providing users with more surface to explore glances which **improved DEU**

Software Developer 1 | *Glance*   *Jan 2020 – July 2021*
 – As part of the Engagement team, made various user-centric features such as Battery Saver, Data Saver, Corona/Sport Widget, Pocket Mode, and Silent Mode etc

- Collaborated with a revamp **one-click install feature** , enabling app installs via Glance by triggering a local broadcast to Xiaomi for streamlined installation processes by get apps
- Developed an online and offline game fragment, enhancing user experience by introducing pre-cached games for offline use. Implemented a pager for quick access to the best games and seamlessly integrated in-game ads and native sponsored videos
- Implemented FCM notifications to re-engage users who have disabled Glance, while seamlessly handling Glance-enabled notifications

Software Developer 1 | *Roposo*   *June 2019 – Dec 2019*
- Integrated quick access dialogs for gift and share. Added a **paid downloads** and gift access feature using Roposo coins earned from engagement, aiming to enhance app revenue
- Contributed to a **video streaming SDK** , enabling the delivery of cached videos through the SDK for integration into the Glance app.

Intern | *NoBroker, Bangalore*   *May 2018 – July 2018*
- Collaborated with a colleague to develop a new app to record over 20K + calls daily, aimed at resolving issues related to conversation context or disputes among tenants, property owners, and customer care representatives. Used firebase authentication and storage to store these call recordings
- Implemented RentalAgreement activity UI in Nobroker App, giving a pager of rental agreements

Intern | *NEW YORK OFFICE, IITK*   *May 2017 – July 2017*
- Implemented push-notification in app via **Google Firebase Messaging** (FCM)
- Implemented **restricting screenshots** on specific screens while performing certain secure actions within the app
- Improved the UX of the app by implementing a sidebar with recently used views for quick access

Achievements

- *Received the Bond007, BuzzLight Feed, Rising Star Awards from Glance for outstanding contributions*

- *M*erit Certificate from CBSE board for outstanding performance in board examinations in 2013

- *R*eceived Gold medals in International Master Mathematics Olympiad and Eduheal Foundation Interactive Olympiad in 2013