

# Shubhasai Mohapatra

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## EXPERIENCE

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- Nudge** Bengaluru
  - Founding Engineer: Mobile* *Sep 2023 - Present*
  - Nudge SDK:** Led the development of mobile SDKs across all platforms (Android, Flutter, iOS, and React-Native). Implemented **UI** data caching, significantly improving the rendering speed.
  - Nudge Core SDK (Flutter):** Developed the core APIs of the Nudge Flutter SDK, which successfully went live and served over **6M+** users on Big Basket.
  - Kinesys UI:** Designed and built Kinesys, Nudge's **Server-Driven UI** system, enabling interactive pop-ups, bottom sheets, and full screens controlled through the Nudge Dashboard. This work notably reduced the SDK size.
  - Hybrid SDKs:** Shortened the release cycle by nearly **50%** by transitioning to hybrid SDKs, allowing faster delivery across all four platforms without compromising the native viewing experience.
  - Android Library for In-App Guidance:** Built an Android library that dynamically generates in-app guidance elements such as tooltips, coachmarks, and spotlights based on API-provided positional data. These elements adapt seamlessly to different screen sizes.
  - Component Extraction for Screenshots:** Developed a feature that captures screenshots along with the details of all tagged views, streamlining the creation of in-app guidance directly from the dashboard.
  - UI Scaling System:** Implemented a UI scaling system that ensures the mobile SDK's UI aligns with the preview in the dashboard, accounting for variations in screen size, orientation, and font size.
  - Optimization and Impact:** Reduced the SDK size by **60%** using **ProGuard**. Designed and set up the release pipeline with Maven Local and a private repository for public deployment.
- Interview Duniya** Remote
  - App Developer (Intern)* *June 2022 - Dec 2022*
  - Android App for Online Interviews:** Developed a native Android app using Kotlin and XML views based on team-provided designs, facilitating online interviews.
  - Online Interview Features:** Developed video recording functionality using the CameraX library and built a Voice Evaluation Module (VEM) using Google's Speech-to-Text API for audio transcription.
  - Impact:** Delivered the complete MVP with an end-to-end flow single-handedly within six months.

## SKILLS SUMMARY

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- Languages:** Kotlin, C++, C, Java, Python, Dart, Swift
- Frameworks and Library:** Jetpack Compose, AndroidX, Material3, UIKit, SwiftUI, iOS, Flutter, React-Native
- Tools:** Android Studio, IntelliJ Idea, Git, GitHub, VS Code, XCode
- Mobile Skills:** Retrofit, Room DB, OkHTTP, Firebase, Cloud Messaging, CameraX, Android Widgets, Services, Broadcast Receivers, Kotlin Coroutines, Custom Views, Server Driven UI, Mobile Libraries

## EDUCATION

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- IIIT Bhubaneswar** Odisha, India
  - Bachelor of Technology - Electronics and telecommunication CGPA: 7.27* *July 2020 - June 2024*
  - Courses: C++, Data Structure and Algorithm, OOPS, Operating System, IoT*

## PROJECTS

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- Wellnation (Android App):** A health-based Android app written in kotlin where users can find hospitals, book appointments, and trigger an emergency alert when they are in an emergency. nearby ambulance, blogs, etc. Wellnation and APK link. **Learned:** Services, Broadcast Receivers, Intents, Locations (GPS Module), Custom App Widgets, OkHTTP, Google Map API, Firebase Cloud Messaging, Google Fit, Material Ui, Kotlin Coroutines
- MS ProgressView (Android Library):** An android ui library, developed for integrating various kinds of progress bars in Android Apps at ease. It provides various customisable circular, horizontal and drawable progress bars. MsProgressView — Android Library. **Learned:** Jetpack Compose, Animation, Gradle, Jitpack, Android Library, Gradle
- Biocraft:** Biocraft, (Android App): An Android App to generate resumes as PDFs from the templates available Biocraft — Android App. **Learned:** Room Database, PDF generation, QR generation, Bit Map Generation. **Available at Playstore** BioCraft - On Google Play

## HONORS AND AWARDS

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- Presented My project Wellnation in Google I/O Connect 23 Bengaluru in Community Lounge
- East Regional Winner Solving For India Hackathon by Google X AMD X GFG
- BU Hack Hackathon Best Individual Hack