

Soham Ghosh

Android Developer · Software Engineering Intern

Kotlin · Jetpack Compose · MVVM · MVI · Geofencing | Published apps · 1150+ DSA problems

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Education

Jaypee University of Engineering and Technology

B.Tech in Computer Engineering – CGPA: 9.24

July 2023 – Present

Guna, India

Work Experience

Software Engineering Intern – Android

July 2026 – Present

Kallcon Technologies

- Developing a privacy-focused calling platform using **Kotlin**, **Jetpack Compose** with **MVVM + Clean Architecture**, integrating RESTful APIs via **Retrofit** across auth, contacts, call history, notifications, and privacy settings modules.
- Implemented **OkHttp Authenticator** for transparent **JWT token refresh** with anti-retry guards, **DataStore** session persistence, and **Hilt DI** — ensuring seamless auth state management with zero user-facing interruptions.

Android Developer Intern

May 2026 – July 2026

KostCart — ANTS Micro Technologies

- Developed a production-grade restaurant POS app using **Kotlin**, **Jetpack Compose**, **Material 3** with custom **MVI architecture**, integrating **15+ RESTful APIs** via Retrofit for end-to-end order lifecycle management across multi-outlet operations.
- Engineered real-time sync via **OkHttp WebSockets** with auto-reconnect and 20s heartbeat, plus a **debounced optimistic update pipeline** (500ms batching + Mutex concurrency) using Kotlin Coroutines for UI responsiveness under intermittent connectivity.
- Architected **5 feature modules** with **Hilt DI**, secure **JWT auth with transparent token refresh**, multi-layer caching (in-memory + SharedPreferences), and **Navigation Compose** routing — reducing redundant API calls and enabling offline-first functionality.

Projects

JP Connect — Kotlin, Jetpack Compose, Firebase, Cloudinary, GitHub Actions, AdMob

2025 – 2026

- Built and launched a **cross-platform university portal** (Android + Web) on **Google Play Store** using **MVVM** architecture, replacing the legacy Webkiosk system for attendance, exam marks, CGPA, datesheets, seating plans, timetables, and mess menus — used by **2,000+ students**.
- Engineered real-time **Lost & Found** feature with **Firebase Firestore**, **Cloudinary CDN**, **SightEngine NSFW moderation**, and **FCM push notifications** to **2,000+ subscribed devices** — with rate limiting and banned-user enforcement.
- Implemented **SMB/CIFS file browsing** via jCIFS for campus network drives, **2 Glance API home-screen widgets**, deep-link navigation, and force in-app updates.
- Automated release pipelines via **GitHub Actions CI/CD** for Play Store deployment, with **AdMob** monetization (4 ad types).

Kindred — Kotlin, Jetpack Compose, Firebase, Google Maps SDK, Geofencing, MVI

2026

- Built a location-aware social platform using **Kotlin**, **Jetpack Compose**, **Material 3** with **MVI + Clean Architecture**, rendering real-time **Google Maps** hotspot overlays via **Geohash proximity queries** on Firestore for proximity-based user discovery.
- Engineered **geofenced real-time group chat** powered by **Firebase realtime listeners** as **Kotlin Flows**, with **Cloudinary** image sharing, live typing indicators, anonymous identity system, and **Room** offline caching.
- Built an **Android Geofencing pipeline** — GeofenceManager, BroadcastReceiver, and **WorkManager** scheduled jobs — to auto-join/leave chat rooms on physical ENTER/EXIT transitions, surviving device reboots.
- Architected a **pure-Kotlin domain layer** (zero Android imports) with **Hilt DI**, designed for future **KMM** portability across Android and iOS.

Technical Skills

Languages: C++, C, Kotlin, Python, SQL, Java

Frameworks & Libraries: Jetpack Compose, Android SDK, Firebase (Auth, Firestore, FCM, Storage), Google Maps SDK, Material Design 3, Retrofit, Room DB, Hilt, OkHttp, Coil, DataStore, Orbit MVI

Developer Tools: Android Studio, Git, GitHub, GitHub Actions (CI/CD), MySQL, Postman, Gradle, Linux

Core Competencies: MVVM, MVI + Clean Architecture, Geofencing & Location Services, Real-time Systems, REST API Integration

CS Fundamentals: Data Structures & Algorithms, Databases, Operating Systems

Achievements

Co-founded **Code Conquerors** and organized **HacktrøN 2025**, JUET's first 12-hour hackathon with **200+ participants**.

Phase 3 qualifier in the **RIDEHack Hackathon** organized at IIIT Noida.

Winner (1×) and runner-up (2×) at the **University Kodeathon**.

Solved **1150+ DSA problems** across platforms (LeetCode, CodeChef, Codeforces) with **1770** rating on LeetCode.