

SEKH GULAM MAINUDDIN

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Experience

EMotorad | *SDE1 - Mobile Application Developer*

Dec. 2023 – Present | *Bangalore, India*

- Engineered **Service-Level Architecture** using **Observer Design Pattern**, and implemented a robust Foreground Service handling Bluetooth Operations efficiently using **Coroutines**, **Flows**, and **Mutex** on the Android and Method Channel with **Isolates & RxDart** support on Flutter Side for smooth data flow over the multi-threaded environment.
- Developed high-performance sub-modules for EBike, SmartLock, and TPMS, leveraging advanced strategies to enhance BLE connection stability from **40% to 90%** and integrating **MQTT** for efficient data transmission to the backend.
- Integrated FlutterMaps with Mapbox to implement **Route Playback & Geofencing** features using Animation Builders, while building functionalities like Community Platform, Coins Redemption, all adhering to **Clean Architecture** principles with **BLoC** for state management and comprehensive unit testing using **bloc.test** and **Mockito**.
- Designed a **CI/CD pipeline** using GitHub Actions, enabling streamlined variant builds with automated unit tests.
- Improved app **performance by 20%**, **reduced app size by 30%**, **reduced battery usage by 20%** with efficient service management, **resolved 80+ bugs**, & refactored core modules to enhance readability, testability, and scalability.

Meliorist Developers | *Flutter Developer Intern*

June 2023 – Sep. 2023 | *Remote*

- Applied **MVVM** architecture with **Bloc** for scalable app design and API communication via **Dio** for robust data handling. Enabled payment processing with **Braintree** and used **Firebase** for push notifications and deep linking.
- Architected a feature-rich event management platform integrated with **Google Maps** and Google Meet, offering **social-media** capabilities such as media sharing, likes, comments, and video playback for **5000+** users.
- Added Qibla direction functionality with customizable alarm settings for Namaz prayer times using **AlarmManager**, and also added **Biometric Lock** feature for safety.
- Created functionalities for session booking and professional networking, built a job portal featuring resume uploads and a **rewards system**, and introduced customer support with ticket management and **WebSocket** powered realtime chat.

CyberHawkz | *Android Developer Intern*

April 2022 – Oct 2022 | *Remote*

- Implemented **MVVM** architecture with **Foreground Services**, **WorkManager**, and **Broadcast Receivers**, along with a **service-level architecture** for efficient data flow. Enhanced asynchronous operations using **Coroutines** and **LiveData**, and converted wireframes into engaging Android XML layouts with ViewBinding.
- Engineered advanced security mechanisms to analyze **DEX files** of newly installed apps and check for **trackers**, permissions and other vulnerabilities present in the app.
- Devised a system for **real-time on-screen notifications** of camera, GPS, and microphone usage, reaching **80-85%** accuracy while leveraging **RoomDB** for access history. Built the Cyber News feature, incorporating bookmarking, search capabilities, and APK upload feature for server-side scanning.
- Wrote unit tests with **Mockito & JUnit**, resolving 50+ bugs, which improved app stability and performance, and drove a **30% increase** in user engagement through strategic feature enhancements.

Education

DRIEMS University | *BTech in Computer Science and Engineering - 9.4/10 GPA*

2020 – 2024 | *Cuttack, India*

Technical Skills

Languages: Kotlin, Java, Dart, XML, C++, Javascript **Tools:** Android Studio, VSCode, Xcode, Git, Github Actions
Android: Jetpack Compose, Dagger-Hilt, Coroutines, Retrofit, OkHttp, LiveData, Flows, RoomDB, Mockito, JUnit, FCM
Flutter: Bloc, Provider, Getx, GoRouter, Dio, GetIt, Mockito, Hero, FlutterMaps, Hive, RxDart, Isolates, MethodChannel
DSA: Solved 300+ questions on [LeetCode](#).

Projects

LearnWithFun | [LINK](#)

Oct. 2023 – Jan. 2024

- Created Learning Management System app with features like Authentication, Video Tutorials, and Notes, Quiz with Cheat Detection using **MLKit**, and Course Enrollment with payment integration using **Braintree SDK**.
- Followed **Clean Architecture** with **Hilt** dependency injection ensuring app scalability and maintainability. Leveraged **Data-Binding** for advanced state management, **Exoplayer** for online video playback, **RoomDB** for caching, **CameraX** & **MLKit** for Cheat Detection, **Retrofit2** for API Integration, **Coroutines & Flows** for asynchronous task.
- Crafted BackEnd with **ExpressJS** and **MongoDB**. Other tools: Brevo, Twilio, JWT, Braintree, FirebaseStorage, etc.

TimeShare | [LINK](#)

Mar 2023 - June 2023

- Developed a Social Media App with features like Chat(1-1 & Group), Voice & Video Call, Reels, Stories, and Posts.
- Followed **MVVM** Architecture with Dagger-Hilt. Integrated Chat feature with **Realtime-DB**, video-call with Agora, and real-time notification using FCM, Reels feature using ViewPager2 & **Exoplayer** with pagination support. Used **Firestore & Firebase Storage** to store user data, FirebaseAuth for Authentication (Phone, Email & Google).