Binish Mathew

Software Development Engineer II

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Objective

Dedicated software engineer with over 4 years of experience crafting high-quality native Android, iOS, and Kotlin Multiplatform applications, along with robust SDKs. Proficient in Jetpack Compose, Compose Multiplatform, and Android design standards, I excel at building and optimizing mobile apps, revitalizing systems, and delivering innovative solutions. Skilled in unifying team efforts for timely project delivery, I thrive on challenging problems requiring in-depth research and am eager to drive technical excellence and leadership growth.

Professional Experience

Software Development Engineer II, MoveInSync Technology Solutions

April 2024 - Present, Bengaluru, India

- Revamped app architecture by modularizing codebase, eliminating circular dependencies, and replacing AlarmManager with WorkManager, reducing crashes and improving resource management.
- Rewrote core app components in Kotlin, enabling faster development cycles for driver app and its lite version through shared codebase.
- Improved location processing algorithm, increasing distance calculation accuracy from 79% to 97% using broadcast receivers.
- Established low-latency MQTT communication channel, replacing poll-based system for better performance.
- Migrated from Gson to ProtocolBuffers for efficient serialization, collaborating with backend and Android teams.
- Led development of face detection feature for passenger attendance, aiding premium client onboarding.
- Architected Kotlin Multiplatform ride-sharing app using Decompose and Ktor, with native Maps and Navigation screens.
- Reduced the app's memory usage by 16% by optimising the object allocation throughout the code.
- Made multi-threading more efficient using Kotlin Coroutines with custom dispatchers backed by Thread Pools.
- Reduced UI jank by moving the database calls to background threads and introducing in-memory cache for frequent queries.
- Built bi-directional Swift-Kotlin communication interface using Objective-C.
- Developed multiple Kotlin Multiplatform SDKs and libraries for use cases like passenger-driver chat, location tracking, analytics, network communication and task queue execution.
- Architected the socket communication microservice written in Node.js and the SpringBoot microservice (persistence layer) written in Kotlin for in-house real-time chat infrastructure. These two services ensure high throughput with minimal resource consumption.

Software Development Engineer I, MoveInSync Technology Solutions

November 2022 - April 2024, Bengaluru, India

- Collaborated on native Android apps for MoveInSync Employee Transport Solution.
- Developed barcode scanner-based passenger sign-in, facilitating premium client onboarding.
- Reduced app size from 49 MB to 32 MB by removing obsolete SDKs and optimizing codebase.
- Led KIOSK app feature to collect network and app behavior data, using content provider for server communication.

Android Developer, CoinedOne Technologies

September 2021 - August 2022, Kochi, India

- Developed Superr, a parental control app, using XML and Jetpack Compose for UI.
- Reduced memory usage by ~24% and CPU usage by ~19% through refactoring.
- Integrated MixPanel analytics for user interaction tracking.
- Implemented social media and YouTube monitoring using accessibility service.
- Developed call monitoring, location tracking, and device communication features.
- Led R&D for re-engineering app into a customizable launcher.

Freelance Android Developer

May 2020 - August 2021, Kochi, India

- Developed image-to-PDF conversion app with editing capabilities.
- Built feature-rich image editor module for a B2B shopping app.
- Designed offline-first insurance premium collection app.

Skills

Programming Languages

- Java
- Kotlin
- C/C++
- Swift
- Objective C
- JavaScript

Technologies

- Android
- Kotlin Multiplatform
- Compose Multiplatform
- Firebase
- SpringBoot
- Node.js

Databases

- SQLite
- PostgreSQL

Skills

- SDK development
- Software architecting

Education

Bachelor's Degree in Computer Applications

2020, University of Kerala, Kerala, India