

# BINISH MATHEW

## Software Development Engineer II

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### OBJECTIVE

Dedicated software engineer with 3+ years of expertise crafting premium mobile applications that embody essential Android design standards along with cutting-edge technologies like Kotlin Multiplatform and Compose Multiplatform. Skilled at unifying team efforts to achieve timely project completion. Proficient in enhancing app performance and efficiency. Seeking a role that maximizes my technical prowess while fostering growth in both engineering and leadership capacities.

### PROGRAMMING LANGUAGES AND TECHNOLOGIES

- Java
- Kotlin
- C/C++
- JavaScript
- SQL
- Android
- Kotlin multiplatform
- Compose multiplatform
- Firebase
- Spring-boot

## PROFESSIONAL EXPERIENCE

April 2024 –  
Present

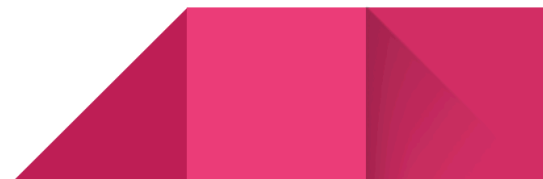
### Software Development Engineer II at MoveInSync Technology Solutions - Bengaluru, India.

- **Revamped the architecture** by **modularising** the codebase to have minimal dependencies and zero circular dependencies. Replaced **AlarmManager** with **WorkManager** to achieve more **reliable task and event scheduling**, which led to a **reduction in crashes** and **enhanced resource management**. Rewrote the core parts of the app in **Kotlin** to enable the team to have a **faster development cycle** for the driver app and its lite version due to the **shared codebase** and **modular architecture**.
- Rewrote the entire **location capturing/processing algorithm** and improved the **accuracy** of distance calculation **from 79% to 97%**. It uses a **broadcast receiver** to listen for **location updates** and delivers more accurate data when compared to the legacy **listener based mechanism**.
- Established a new **low latency communication channel** using **MQTT** to reduce the latency experienced with the existing poll based communication channel.
- Led the development of an Android application which performs **face detection** on **video streams** to mark **passenger** attendance. This feature helped in onboarding another premium client and **upselling the product** to existing clients.

November 2022 -  
April 2024

### Software Development Engineer I at MoveInSync Technology Solutions - Bengaluru, India.

- Collaborated with a talented team to build and maintain multiple **native Android applications** that are integral to the **MoveInSync Employee Transport Solution**.
- Developed the **barcode scanner based passenger sign-in feature** which made **passenger authentication** easier. It helped in onboarding a **premium client**.
- Reduced the **app size from 49 MB to 32 MB** by removing obsolete SDKs and **optimising the codebase**.
- Worked on the MoveInSync KIOSK app which is the **device owner app** installed on MoveInSync procured devices. Led the development of the feature to collect **network usage data** and **application behaviour data** for **analytics** and feature planning. Implemented a **content provider** to expose the data to the driver's app to send them to the server via existing communication channels which are optimised.



September 2021 – **Android Developer at CoinedOne Technologies - Kochi, India.**  
August 2022

- Worked with a highly skilled team in building a **parental control application**.
- Experience in developing user interfaces using both **XML** and **Jetpack Compose**.
- Refactored a major part of the app and **reduced memory usage by ~24%** and **CPU usage by ~19%**.
- Integrated **MixPanel analytics** to track user interactions.
- Hands-on experience in working with the Work Manager APIs.
- Experience in using the **accessibility service**. Implemented **social media and YouTube app monitoring** features using the accessibility service.
- Implemented **call monitoring and blocking** functionalities using a broadcast receiver, phone state listener and a service.
- Implemented **location monitoring feature** using **Fused Location Provider API**.
- Experience in making **inter-process communication** between services such as the accessibility service and foreground service using broadcast receivers.
- Implemented device communication within a local network using **Network Service Discovery(NSD)**.
- Designed and developed **custom notification layouts** for the app.
- Led **research** and development in **re-engineering** the parental control app to a **customizable launcher**.

May 2020 – **Freelance Android Developer – Kochi, India.**  
August 2021

- Developed an **Android app** which **converts images into pdf files** and enables **editing of pdf files**.
- Developed a **feature-rich image editor module** and integrated it to an existing B2B shopping app for a client.
- Designed and developed an **offline-first** insurance premium collection application for a client.

## EDUCATION

- **Bachelor's degree in computer applications - 2020**  
University of Kerala, Kerala, India.

