

# Abel Mengesha

Senior Mobile Engineer - Flutter | Kotlin | Swift

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## PROFESSIONAL EXPERIENCE

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### Sr. Mobile Engineer - Flutter

Present

*iDen2*

- Building a secure, inclusive, and privacy-first Android and iOS **identity wallet** and verification app where individuals control their identity and access digital services seamlessly.
- Built selective disclosure feature end to end using **BLoC**
- Built a **trust network mobile library** (Dart) with 100% test coverage
- Introduced **unit test and code coverage** to the codebase and implemented **CI/CD** with Github Actions

### Senior Mobile Engineer

07/2023 – 12/2024

*IOHK*

Singapore (Remote)

- Built a POC with **Flutter** for fully SSI wallet with **Identus SDK**, 100% **code coverage**, **clean architecture + BLoC**, **encrypt** package,
- Migrated MoE Digital ID Android app to **Kotlin Multiplatform (KMP)** with shared logic + **Swift UI** and **UIKit** for iOS and **Jetpack Compose** on Android.
- Enhanced scalability and maintainability resulting in reduced cost and delivery time with **KMP**.
- Developed credential viewing, transcript access, and blockchain-based verification features using **Atala Prism (Cardano SSI)** for secure, tamper-proof identity management.
- Applied **clean and modular architecture** with shared domain and data layers to support future growth and cross-platform extensibility.
- Implemented CI/CD pipelines with **GitHub Actions**, maintaining **90%+ code coverage**

### Senior Android Engineer

06/2022 – Present

*Wooqer*

USA (Remote)

- Delivered major Android features and **AI integrations** to help businesses accomplish tasks with smart features.
- Oversee development of features like automatic task generation, site visit report(SVR), drafts, audio/video support, **AI based visual merchandizing** with GPT models
- Built developer tool libraries for third-party enterprise integrations with the Wooqer platform.
- Implemented customer-requested enhancements with high quality, maintaining a **zero-bug backlog** for months and achieving **99.95% crash-free users**, raising Play Store rating from **4.2 to 4.7**.
- Cut landing page load time (**99th percentile**) from **14s → 4s**, improving retention.
- Migrated multiple modules from **Java** to **Kotlin** and **Jetpack Compose** along with modern and sleek UI revamps.
- Built REST APIs in Spring Boot to integrate with mobile apps.

### Mobile Developer (Android & iOS)

04/2022 – 12/2022

*Kemer Habesha*

Addis Ababa, Ethiopia

- Developed major features of the **Alen Home Solutions** iOS app using **Swift**, **UIKit**, and **MVVM architecture**, ensuring scalable and maintainable code.
- Integrated **Google Maps SDK** to provide interactive mapping and location services within the app.
- Collaborated in requirement gathering and app design to align technical solutions with user needs and business goals.
- Implemented **offline-first** capabilities using **Core Data** for efficient local data persistence and seamless app usage without internet connectivity.
- Ensured app quality and stability by achieving **80%+ unit test coverage**, covering critical business logic and UI components.
- Utilized iOS frameworks such as **Combine** and **URLSession** for reactive programming and efficient network communication.

## Android Developer

*Infinity Technology*

10/2021 – 08/2022  
Addis Ababa, Ethiopia

- Developed the **airtime top-up feature** and key service modules (DSTV payment, Canal+ payment, airline booking) within the multi-module **Hulugram super app** built on Telegram, enhancing user convenience and service reach.
- Designed and implemented **Marketplace and escrow features**, ensuring secure and trustworthy transactions between users.
- Integrated a variety of local and international payment methods, delivering **secure, seamless, and compliant payment processing** across the app.
- Focused on bug fixing, code optimization, and performance tuning to maintain high app responsiveness and reliability, crucial for smooth transaction experiences.

## Android Developer

*Arifpay*

01/2021 – 10/2021  
Addis Ababa, Ethiopia

- Developed the **offline-first Arifpay mPOS Android app** using Clean Architecture and MVVM in Java and Kotlin, ensuring maintainable and scalable code.
- Implemented socket programming for real-time communication with legacy core banking systems using **ISO 8583** messaging protocols.
- Ensured product quality with **70%+ test coverage** through unit tests (JUnit, Mockito) and UI tests (Espresso).
- Contributed to the development of the **Arifpay wallet app** using Flutter, leveraging **BLoC** for state management and **Hive, SQFLite**, and **Dio** for local storage and networking.

## Freelance Mobile Developer

*Freelancer*

01/2018 – 2021  
Addis Ababa, Ethiopia

- Developed multiple freelance projects for different clients using Android and Flutter. Projects include Video Player, QR Scanner & Generator, Language Learning app, Video Downloader, etc.

## SKILLS

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— Flutter, Dart, Kotlin, Java, Swift, Dart, Jetpack Components, Coroutines + Flow, Retrofit 2.0, RxJava 2, Dagger-Hilt, Room, JUnit, Mockito, Jetpack Compose, Github Actions, Google Maps, ExoPlayer, KMP, Ktor, Koin, SQLDelight, UIKit, SwiftUI, CoreData, Combine, BLoC, Provider, Riverpod, GetX, SQFLite, Hive, Dio, Firebase, RevenueCat, etc

## PROJECTS

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- **Syllux**

Personal project - Web browser with built-in music player

- **GC Count Down**

Personal project - A countdown app for graduating students with reminders and custom memorial gallery features 10,000+ installs

- **BduQR**

Fast digital verification system for students' laptop property ownership for BahirDar University.

- **QR Master**

Freelance - QR code generator and scanner for email, contacts, payments, wi-fi, and different social media platforms. (MVVM, Room, ZXing library, Material UI)

- **Arabic by Multilingualism**

Freelance - **Flutter** app (Android, iOS) that teaches Arabic language (Provider, Dio, SQFLite, Social media login, Stripe subscription, audiobooks, quizzes).

## TRAINING & CERTIFICATIONS

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- Google Africa Developer Scholarship (GADS2019) - 2019
- App Brewery - Introduction to Flutter Development - 2020
- The Complete RxJava3 for Android Development Masterclass - 2021

## **EDUCATION**

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### **Computer Science**

*HiLCoE (MSC)*

2017 – 2021  
Addis Ababa, Ethiopia

### **Electrical and Electronic Engineering, Communication Engineering**

*Addis Ababa Science And Technology University*

10/2012 – 07/2017  
Addis Ababa, Ethiopia

## **VOLUNTEER**

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### **Google Africa Developer Scholarship**

*Mentor*

2020

Guided aspiring Google Africa Developer Scholarship 2020 students to achieve their learning goals in Android Development.