Aldrich Mascarenhas

London E2 8AN • 07404796643 • mascarenhasaldrich@gmail.com • aldrichmascarenhas.com

Creative and driven Android Developer, building modern functional applications with a focus on Kotlin, MVI, Dagger/Koin, RxJava, and Architecture Components.

PROFESSIONAL EXPERIENCE

Android Developer　　　　　　　　　　　　　　　　　　　　　　　　May 2019 - Present
Babylon Health　　　　　　　　　　　　　　　　　　　　　　　　London, United Kingdom

　　Babylon Health (United Kingdom App)
- Working in a large Android Team, within squads that work on individual features/areas of the application.
- Tech stack for the application includes : MVI/RxJava/Coroutines/Kotlin/OkHttp/Retrofit/Dagger/Groupie.
- Tech stack for testing includes : Kakao/Espresso/Junit5/Spek2/Firebase Test Lab for UI tests/OkReplay.
- Worked closely with Product and Design to implement and spec new features.
- Maintaining and adding functionality to IntelliJ plugins used internally that reduce boilerplate code. This included templates used to create new screens, and an Annotation to link Screens with Activities/Fragments.
- Shipping multiple flavours of the app to different markets/regions.
- Writing Unit Tests in Spek1/2, UI Tests that run on Firebase Test Lab.
- Setting up AB Tests/Remote Configuration for Product using Firebase/Optimizely.
- Creating and Extending reusable UI Components for use across the application.
- Was responsible for designing and implementing API Contracts for screens that use Backend Driven UI.
- Responsible for adding Accessibility and making screens accessible in various sections of the app.
- Adding features and functionality to the Babylon SDK for Partners.

Android Developer　　　　　　　　　　　　　　　　　　　　　December 2017 - May 2019
Ostmodern　　　　　　　　　　　　　　　　　　　　　　　　London, United Kingdom

　　F1TV (Formula 1 / Liberty Media) - Play Store
- Developed a complex OTT Live Streaming App with synchronized Video Streams, Data over a Websocket with both app and tv modules.
- Integrated with multiple third parties, F1 Data Feed for Live Race Data, 24 Video Streams provided by NBC/TATA Communications, CSG for Authentication/Identity Provision, Google Play/Amazon Store for In App Subscriptions
- Contributed towards development of a modularised library for the CSG SDK, customized forked STOMP Websocket Client,and NBC's Player for use in app and tv modules served over JitPack.
- Oversee migration of Adobe Primetime Player to NBC's Player.
- Find solutions to caching of high speed (100ms) Websocket data, and synchronizing with 2 live video streams.
- Made heavy use of RxJava to handle Data Flow in Race Mode, and Constraint Layout to handle Race Configuration Changes.
- Adapting UI for various devices, such as 16:9/4:3 Tablets and various sized Mobile Devices.

　　Arsenal (Arsenal F.C)
- Contributed towards development of a modern architecture application using Kotlin, MVVM, RxJava, Dagger.

　　BBC Player (BBC Worldwide) - Play Store
- Integrated with an Authentication Portal to handle authentication for multiple Identity Providers.
- Addition of a "Kids Zone", that allows children to only view PG Content.
- Use of Kotlin in newer features, and migrating the codebase from Java to Kotlin.

EDUCATION

Padre Conceicao College of Engineering　　　　　　　　　　　　　　　　　　Goa,India
Bachelor Computer Engineering　　　　　　　　　　　　　　　　　　July 2013 - July 2017

PERSONAL PROJECTS

The Navhind Times (Unofficial)　　　　　　　　　　　　　　　　　　　　*September 2017*

- Open Source News App built over Navhind Times WordPress API.
- Developed Android Application using the MVP Architecture, Dagger 2, Retrofit & OkHttp.
- Support for both Phone and Tablet Layouts.

locATM   *November 2016*
- Open Source Android Application built to locate ATMs with available denominations during the 2016 Demonetization Crisis in India.
- Over 5000 App installs in 5 days on the Google Play Store.
- Firebase used as the Backend, with Google Maps API for locating and finding nearby ATMs.

Gift – Link a Gif   *March 2016*
- Open Source Android Application to share/view GIF Images inline in any App that did not natively support sending/viewing of GIFs.
- Giphy API used to provide GIF Images.
- Lifetime installs of 4500 on the Google Play Store.

Feeding India   *November 2015*
FeedingIndia.org
- Open Source Android Application, designed to allow users to easily donate food towards needy and hungry Children.
- Created and designed all layouts.
- Identified Use Cases and created layouts and flows to simplify the User Experience.

Tatva 2015 / KOSS 2015   *January 2015*
VM Salgaocar College of Law/ S.S. Dempo College of Commerce & Economics
- Android Applications built for College Events to provide Daily Updates for Events and Push Notifications functionality while I was freelancing during College.
- Lifetime 2000 installs on the Google Play Store.

TECHNICAL COMPETENCIES

- **Android:** Kotlin, MVVM/MVI, Java, RxJava, Dagger, Koin, OkHttp, Retrofit, Realm, Architecture Components, JetPack Android Components.
- **Android Testing** : Kakao, Espresso, Junit5, Spek2, Firebase Test Lab for UI tests, OkReplay.
- **Integrations**: Firebase Platform, Google Analytics, Fabric, Crashlytics, Optimizely
- **Productivity**: Git Flow, Git, Source Tree, GitHub, Slack, Confluence, Scrum, Agile, Target Process, Jira.