

# Moj Abubakr

Senior Software Engineer (Android)

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## Profile

*I'm a Software Engineer from London, specializing in Android development. I have experience leading and working with both in-house and remote agile teams to deliver beautiful, robust, scalable, world class Android applications. I embrace and advocate TDD, agile principles and continuous integration culture. I'm also big on architecture and Kotlin and enjoy continuously learning new technologies and ways of working. I'm particularly interested in IoT, AI and machine learning, and learn as much as I can about the subjects in my spare time. I tend to always have a side project going to test, trial and apply new ideas and concepts.*


*I graduated from London South Bank University with a BEng 1st class honours in [Computer Systems & Networks Engineering](#). I've worked with several high profile clients such as Ford, MetOffice and Tesco during my time at The App Business. I've also worked within the restaurants team at Deliveroo. I'm currently contracting, learning more about different domains, teams and ways of working.*

## Skills

Kotlin / Java / C++ / [Android Things](#) / MVP Clean / MVVM / MVC / Dagger 2 / RxJava 2 / Retrofit 2 / GraphQL / Room / Architecture Components / Ktor / TDD / BDD / JUnit / Mockito / Robolectric / Truth / Espresso / Spoon / [JGiven](#) / Gradle / Git / Jira / Google Play Developer Console / TeamCity / Bitrise / Travis / Codecov / Jenkins / Charles / Postman / Butterknife / Timber / SQLite / Google Analytics / Segment / Snowflake / DataGrip / Sketch / Adobe Photoshop / Adobe Illustrator / Adobe Premiere / [film-making](#) / [photography](#).

## Work

 **Babylon Health** | January 2019 - Current | Contractor - Senior Software Engineer (Android) - "Babylon's mission is to put an accessible and affordable health service in the hands of every person on earth."

 **Novoda** | November 2018 - December 2018 | Contractor - Senior Software Engineer (Android) - "Novoda, A Google Certified Agency, handcrafts successful Android and iOS apps. We partner with ambitious brands and innovative startups, committed to excellence in mobile software engineering and design."


- Worked on a connected car app offered by Samsung Harman and AT&T America.
- Led, developed and released Wi-Fi hotspot usability enhancements; this involved simplifying lots of complexity around hardware state management and conveying information to the user in a simple and delightful way.
- Actively led various technical discussions, championing simplicity, quality and user need.
- Updated and refactored the app to use the new AndroidX support libraries.
- Mentored other members of the team to help distribute knowledge and up-skill where needed.




Project ended due to client strategy pivot.

 **Deliveroo** | March 2018 - October 2018 | Software Engineer (Android) - "Your favourite restaurants, delivered fast to your door."

- Worked in the restaurants team building the restaurant live orders app which is used by restaurants to accept, reject and view live orders.
- Took an active lead position, engaging with product roadmap, discovery and planning.
- Actively participated in the restaurant software, hardware and deployment strategies.
- Rebuilt the legacy Bluetooth printer code (which is used to print order receipts) into a library written entirely in Kotlin.
- Led development on a WebSocket backed library to provide real-time connection with the backend servers to both eliminate the need for polling and it's associated polling delay. This reduced server load by more than 60%+ and showed new orders to restaurants up to 30 seconds quicker.
- Improved and simplified the feature flagging, variant experimentation and analytics tracking setup, making it easier and quicker to use.

- Other features implemented include Marketplace+ support, code-base modularization to better improve architecture as well as several other product enhancements and features.
- Converted the vast majority of the app from Java to Kotlin.
- Streamlined release processes through automated steps and CI optimizations.

 **The App Business** | June 2016 - February 2018 | **Software Engineer (Android)** - *"The App Business is a mobile solutions company: we re-imagine the business and operations of the world's leading organisations through mobile."*

-  **Tesco** *grocery home shopping*. Led development on Tesco's new grocery home shopping app. Features Kotlin and use of the new Architecture Components. Key features implemented include basket syncing architecture, delivery slots and the home screen.
-  **MetOffice** *weather*. Currently has a 4+ star rating and over 5,000,000 total downloads across Android and iOS. Features implemented include widgets, weather snapshots, weather warnings and the construction of a mapping SDK.
-  **GoDrive** *by Ford Motors*. Rapid iteration on Ford's car hire service. Features worked on include user accounts, search, on street and hub parking functionality.
- Pitched to clients. Delivering technical and non-technical presentations to stakeholders and team members. Mentored and led junior members of the team. Actively participated in recruitment and growth of the Android specialists.

## References

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**TAB Insights** - *"One of our Android devs, Moj, shared an amazing product story - drilling into the detail of what moves a project from good to great. Moj's story was about how labels are positioned in the Met Office app we built. Two things struck me during that presentation; the first was Moj's brilliant explanation of complicated algorithms to a largely non-technical audience using just a whiteboard; he obviously had a very strong understanding of the subject matter. The second was the amount of work that went into a feature that no user was ever going to think about, but which improved the experience for everyone. It was a fantastic story I found really inspiring."*

**Medium** - *Clean architecture on Android—Kotlin, Feature Modules, MVVM, Architecture Components, View Slices and BDD tests.*

**Medium** - *Blog post on Android Things, Google's IoT platform.*

**Medium** - *Blog post on Gradle tasks written in Kotlin.*

**Medium** - *Blog post on Automating app versioning.*

**IBM** - *Winning team for the IBM Bluemix Hackathon held at LSBU.*