

Moj Abubakr

Lead Software Engineer (Android)

London / mojroid@gmail.com / github.com/mojroid / linkedin.com/in/mojroid / medium.com/@mojroid / Last Updated: February 2021

Profile

I'm a Lead 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 agile principles and continuous integration culture. I'm also big on architecture and Kotlin and enjoy learning new technologies and ways of working. 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 engineering team at Deliveroo. I've contracted for various companies, allowing me to rapidly learn more about different domains, teams and ways of working.

Skills

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

Work



Octopus Energy | May 2020 - Current | Lead Software Engineer (Android/Contract) - *"Energy that's good for the planet, good for your wallet, and, honestly, good for your soul."*

- Worked on building a new field services app used by thousands of engineers when installing smart meters, electric vehicle charge points and in-home batteries.
- Played a critical part in societies efforts to hit net zero and of octopus's vision of bringing affordable green energy to everyone.
- Acted as mobile lead looking outwards and holistically, interacting with the wider business, leading architectural and technical approaches, CI/CD + testing pipeline setup and feature work with hands on involvement in the overall design, strategy, user research, product development and roadmapping.
- Advocated agile principles, focusing on lean development techniques to deliver value often and quickly with a strong sense of user involvement.
- Supported and facilitated user testing and engagement using both quantitative and qualitative data to provide a rapid and continuous feedback loop to help better inform decision making.
- Mentored other members of the team to help distribute knowledge and up-skill where needed.
- The app was built following clean architecture and SOLID principles, feature modules, an MVVM/MVI hybrid pattern, 100% Kotlin, Hilt, architecture components, BDD tests, Espresso, GraphQL/Apollo, Room and coroutines.



Orderun | November 2019 - May 2020 | Founder - *"The flexible point-of-sale ecosystem for restaurants, cafes and takeaways. Take orders and payments with real-time business insights at your fingertips."*

- Founded <https://orderun.app>, a point-of-sale ecosystem aiming to use technology to empower restaurants, cafes and takeaways to work better.
- On hold due to the pandemic, might revisit in the future.



Stryde | September 2019 - November 2019 (3 months) | Lead Software Engineer (Android/Contract) - *"STRYDE is a new kind of*

seismic company, reinventing subsurface imaging."

- Joined Stryde, a start-up incubated by BP Launchpad as their first software engineer hire.
- Worked on delivering an industrious, greenfield application used by field workers to deploy and retrieve seismic loggers in varying parts of the world.
- Worked on defining the architecture, feature roadmap and milestones to deliver value quickly to establish a regular feedback loop with users and stakeholders.
- Took initiative and facilitated where needed, advocating self-organization and shared ownership of the process given the small team size.
- App features developed include survey plan importing, end of day reporting and the development of a bespoke positional guidance system.
- Mentored other members of the team to help distribute knowledge and up-skill where needed.
- The app was built following clean architecture and SOLID principles, feature modules, an MVVM/MVI hybrid pattern, 100% Kotlin, Dagger, architecture components, BDD tests, Room and coroutines.



Babylon Health | January 2019 - August 2019 (8 months) | **Senior Software Engineer (Android/Contract)** - *"Babylon's mission is to put an accessible and affordable health service in the hands of every person on earth."*

- Delivered an overhaul to the payments flow to support additional payment methods such as PayPal alongside various UI and UX improvements to simplify the checkout flow.
- Worked on simplifying the analytics framework by substantially reducing the boilerplate required to implement events, helping improve the developer experience, enforcing code consistency and ultimately increasing code quality.
- Worked on delivering an entire app redesign by implementing the new visual language, requiring consolidation of the styling and theming architecture to build out reusable, dynamic visual components. This provided consistency and flexibility alongside a huge reduction of UI technical debt. Led discussions on deployment and roll-out strategies which allowed us to work simultaneously on the visual overhaul without impacting other ongoing work.
- Successfully delivered the Kingdom of Saudi Arabia app under extremely tight time constraints, requiring concerted efforts to over-communicate to ensure transparency and clarity whilst maintaining a high standard of quality throughout delivery of the project.
- Worked frequently with other disciplines to mentor, share knowledge and ideate improvements to features, processes and ways of working.
- Championed agile practices and cross-functional collaboration, allowing the team to deliver higher quality work given improved communication, transparency and stakeholder involvement.



Novoda | November 2018 - December 2018 (2 months) | **Senior Software Engineer (Android/Contract)** - *"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 (8 months) | **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 (1 year, 8 months) | **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. 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

[LinkedIn Recommendation](#) | Sakis Kaliakoudas | Android Lead @ [Babylon Health](#) - *"Moj spent a few months in Babylon Health as an Android engineer working in one of the teams. I have to say that he is one of the fastest engineers I've seen delivering product work to the spec, while adhering at the same time to the codebase standards and the high code quality that is demanded at Babylon Health. He got on-boarded very quickly and started delivering from the first week. At the same time, he has the best communication skills I've seen to this day. Very thoughtful, interested in improving the product but also interested in improving the project technical infrastructure. Finally, very inclusive and respectful of others."*

[LinkedIn Recommendation](#) | Paul Blundell | Head of Engineering @ [Novoda](#) - *"Knowledgable self starter' is the phrase that comes to mind when I think about Moj. I hired Moj as a Android contractor in 2018 after seeing his great portfolio of work, and he completed the two month contract perfectly. Moj's Android platform knowledge made a dramatic difference in the productivity level of our team. Moj would be an asset to any team."*

[LinkedIn Recommendation](#) | Dennis Simoni | Software Quality Assurance Analyst @ [Deliveroo](#) - *"Moj is a hard working professional Android developer with excellent communication skills, great ideas to help improve products and processes. He has a very analytical mindset and his code which is mainly written in Kotlin or Java is above standards. He has the ability to explain things in a very calm and easy to understand way and has been a great mentor to me and other colleagues. Moj is a developer that I have really enjoyed working with and I would recommend without thinking twice."*

[TAB Insights](#) | Ryan Loader | Senior Software Engineer @ [The App Business](#) - *"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."*

Blogs

[Medium](#) | [Gradle tasks written in Kotlin.](#)

[Medium](#) | [Automating app versioning.](#)

[Medium](#) | [Clean architecture on Android—Kotlin, Feature Modules, MVVM, Architecture Components, View Slices and BDD tests.](#)

[Medium](#) | [Android Things, Google's IoT platform.](#)

[IBM](#) | [Winning team for the IBM Bluemix Hackathon held at LSBU.](#)