

Muhammad Hashim Abdul-Azîm

Software Engineer & Writer, with many hats, metaphorically and literally.
I develop & consult for **Mobile**, and **Web** Apps.

[Website](#) • [LinkedIn](#) • [GitHub](#) • [Blog](#) • msg@mhashim6.me • +201121073003

Experience

Digitalization Technology Consultant (Hybrid, Seasonal); Egyptian Armed Forces | MAY 2022 - *Present*

I work as a tech consultant for The Recruitment and Mobilization Presidency.

Software Engineer II; Instabug | MAR 2022 - *Present*

I work on [Instabug](#)'s Mobile SDK's Architecture & Infrastructure.

Mobile App Engineer; ElCoach | JUL 2020 - MAR 2022

I work on [ElCoach app](#) for iOS & Android using React Native, Kotlin, and Swift:

- Maintain and develop the native side of the app using Kotlin & Swift
- I Built a unified React Native API for integrating with Apple Health and Google Fit on iOS & Android
- Conduct **R&D** experiments for new features, most important of which is the "Goal Tracking" mega feature
- I worked on integrating our app with Huawei App Gallery SDKs for Huawei phones with GApps support
- Regularly conduct codebase refactoring & architecture design phases with our team

Corporal, Senior Full-Stack Engineer; Recruitment & Mobilization Presidency | MAR 2021 - MAR 2022

I lead a team of 6 engineers in building H.A. Software and services for the Egyptian Military, Recruitment & Mobilization Presidency

SMS Gateway (React, Kotlin, Ktor, Oracle DB) • E-Fax (Django, SQLite, REST, jQuery, Bootstrap) • VoIP IVR (C#, GrandStream UCM) • (Proxmox VE, pfsense, SquidGuard)

Co-Founder, Mobile App Engineer; Medicibe | FEB 2018 - MAY 2020

I developed trending native Android apps and X-platform React apps for the company.

Freelance Mobile App Developer | JUL 2017 - JUN 2020

[Rafeeq Al-Hajj](#) (Android/Kotlin) • [Al-Sahihan](#) (Android/Java) • [Put-Back](#) (Android/Kotlin)

Lead Software Engineer; [Canesee \(Graduation project\)](#) | SEP 2019 - AUG 2020

- I was working with/leading a team of 10 engineers
- I designed the overall system architecture & a modular architecture for the Android app
- I designed a framework to run all machine learning models efficiently & simultaneously on our smart glasses (raspberry pi)

Lead Software Engineer, Scrum Master; [Open Quran Learning Platform \(FOSS\)](#) | FEB 2020-JUN 2020

- Apply Scrum methodology in a completely remote team of 12 engineers while experimenting with the team to explore adhoc practices to achieve our goals in morbid working conditions (COVID-19)
- Design and implement the web interface with **ReactJs**

Open Source Contributions

- [Pi4J/pi4j-kotlin](#)

I'm primarily responsible for [bringing Kotlin to the Raspberry Pi](#).

- [PySceneDetect](#)

[Live detection](#) for changing scenes in videos

Programming Languages *(click-able)*

- [Kotlin](#) • [Java](#) • [Swift](#) • [JavaScript](#) • [Python](#) • [C](#)
- [C++](#) • [x86_assembly](#) *(Basic knowledge)*
- [Haskell](#) *(Just for toying with Pure Functional Programming)*

Education

BSc, Computer and Systems Engineering; Zagazig University | 2015-2020

Human Languages

Arabic *(Native)* • English *(Bilingual Proficiency)* • German *(A1 level)*

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