

# Mostafa Nafie

Senior Software Engineer in iOS | Instructor

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## Summary

With a passion for technology from a young age, I started my programming journey at 14. Accumulating over 5 years of professional experience, I've worked in two unicorn companies (Careem and SWVL), broadening my insights in the tech sector. Experienced in designing, developing, testing, deploying, and maintaining scalable applications in fast-paced, agile environments, collaborating with diverse teams across the USA 🇺🇸, Germany 🇩🇪, UAE 🇦🇪, KSA 🇸🇦, and Egypt 🇪🇬, to serve users globally 🌍.

When I'm not coding, you'll likely find me working out. I've played lots sports, including swimming, kung fu, and taekwondo, I also have a blue belt in karate and a brown belt in judo.

## Experience

March 2023 – Present

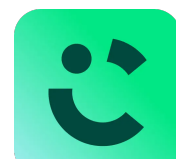
Senior Software Engineer in iOS, **Careem**

As the first unicorn in the Middle East, Careem is a Dubai-based super app with operations in over 100 cities, covering 12 countries across the Middle East, Africa, and South Asia regions.

- Using Kotlin Multiplatform (KMP) to develop shared modules between Android and iOS.
- Handling On-call and release management responsibilities.
- Implementing unit testing and snapshot testing to ensure code quality.
- Building with Bazel to optimize build times.

(MVVM-C - Snapshot testing - Bazel - KMP)

[Check on App Store](#) - [Check Website](#)



Dec 2022 – Sep 2023

Freelancing - Senior Software Engineer in iOS, **Yassir** (YC W20)

The 5<sup>th</sup> most funded startup in the MENA region, a Ride-Hailing and Delivery Startup, active in +25 cities across 5 countries.

- Setting-up the deployment environments (Development, Staging, Pre-production, Production).
- Managing manual code signing for each environment (Development, Ad-Hoc, AppStore).
- Setting-up CI/CD pipeline from scratch using fastlane and GitHub actions.
- Integrating Danger to ensure higher code quality and faster code reviews.
- Integrating Push notifications and managing APNs Certificates.
- Integrating Analytics and Crashlytics for each deployment environment.
- Handle app distribution through Firebase App Distribution.
- Developing continuous background location updates feature.

[Check on App Store](#) - [Check Website](#)



Jan 2022 – Nov 2022

SWE II in iOS, **Swvl** (MENA's first \$1.5 Billion Unicorn)

A multinational mobility as a service provider that offers tech-enabled mass transportation services, operating in 123 cities in 20 countries across Europe, Asia, Africa, North America and Latin America.

- Designing and developing features to improve B2C experience.
- Serving millions of users per month which averages to 140K+ daily users.
- Code review peers code.
- Unit-test code for robustness, including edge cases, usability and general reliability.
- Applying agile methodology, automated tests, continuous integration system, and continuous delivery.

[Check on App Store](#) - [Check Website](#)



- Worked on the largest project by revenue in the B2G sector as a part of the **Door2Door (A Swvl Company)** team.
- Worked on a white-label multi-tenant solution for Demand-Responsive Transit (DRT).
- Optimized the iOS CI pipeline to run 25% faster using CircleCI.
- Adapted BDD DSL in testing using Quick, Nimble and Cuckoo.
- Work with the product and design teams to understand end-user requirements and use cases and translate them into pragmatic and effective technical solutions.
- Own end-to-end product modules/features from requirements to going live. (VIPER - Swinject - SnapKit - Quick - Nimble - Cuckoo - AppCentre)

[Check on App Store](#) - [Check Website](#)



Jan 2021 – Dec 2021

Software Engineer in iOS, **Robusta Studio**

The leading software agency in Egypt.

Was part of the team responsible for building e-commerce apps for the biggest supermarket chains in Egypt like Seoudi and HyperOne.

• **Seoudi App:** Ecommerce app for one of the biggest supermarket chains in Egypt.

- Was the only developer working on the app for 90% of the time.
- Owned the app from the design review phase.
- Setting up the CI/CD pipeline using Bitrise.
- Handle distributing the app for testing using TestFlight.
- Use debugging tools like CocoaDebug.
- Use static code analyzer (SwiftLint).
- Integrating Amazon Payment Services (PayFort) payment gateway.

[Check on App Store](#) - [Check Website](#)



• **HyperOne App:** Ecommerce app for one of the biggest hypermarket chains in Egypt.

- Working in an Agile, fast-paced environment.
- Applying Clean Architecture.
- Handling GraphQL queries and mutations using Apollo.
- Implementing Dependency Injection using Resolver.
- Handling asynchronous code using Promises.
- Integrating Analytics using Firebase and Facebook.
- Adding ValU and Bank Installments payment methods through Paymob SDK.

(Swift - MVP - SPM - Apollo - Resolver - Promises)

[Check on App Store](#) - [Check Website](#)



Sep 2020 – Dec 2020

iOS Developer, **The Datum Company**

A technology-driven consulting firm offers business and software consultations to a diverse industry client market.

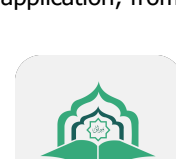
Worked on Bayan and Sweater apps.

• **Bayan App:** This is the first authenticated revised electronic Quran Kareem application; from one of most famous Azhar licensed reviser.

- Setting up Local Notifications for Prayer times.
- Configuring PDFKit to display chapters of the Quran.
- Signing In by social media.
- Sharing (Text and Images) to Facebook, SMS and WhatsApp.
- Implementing two kinds of databases; SQLite and Realm.

(Swift - MVP - FBSDKCoreKit - TwitterKit - PDFKit)

[Check on App Store](#) - [Check Website](#)



• **Sweater App:** Offers the easiest & fastest way to car wash. where you can manage vehicle, booking and check transaction history.

- Integrating payment gateway (Hyperpay).
- Realtime tracking.
- Remote notifications.
- Implementing Unit Testing in the payment module.
- Data Persisting using; KeyChain, UserDefaults and CoreData.

(Swift - MVP - Firebase - FCM - GooglePlaces - GoogleMaps)

[Check on App Store](#) - [Check Website](#)



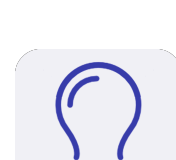
Jan 2020 – Aug 2020

iOS Developer, **IDEA-EG**

• **IDE App:** The first Egyptian app that specializes in teaching programming.

- Influencing the UI/UX design and the navigation flows.
- Creating reusable custom views using XIBs and NIBs.
- Building Adaptive UI for iPhone and iPad using Auto Layout and size classes.
- Optimizing the UI for Dark Mode.
- Implementing a robust network layer using Codable, Alamofire and RxSwift.
- Implementing the desired features using clean and well commented code.
- Using GitFlow workflow to push the new features.

(Swift - CocoaPods - RxSwift - Optimized MVC - REST - Git)



## Instructing

Aug 2021 – Dec 2021

iOS Teaching Assistant, **Coding Dojo (USA)**

- The classes were conducted in English.
- Taught 60 students to go through 2 full iOS Development courses from Swift till iOS Advanced concepts.
- Instructing Samples: [Sports Application](#) - [Deck of Cards](#) - [Bucket List CRUD](#)

Oct 2021

iOS Instructor, **Ignite Program - Robusta Studio**

- Taught 4 students in this program to gain the necessary skills to be able to land an internship in Robusta Studio.

Jan 2020 – Aug 2020

iOS Co-Instructor, **IDE Academy**

- Taught 25 students through 3 online courses.
- Provided code reviews for projects and assignments.

## Freelancing

• **Upwork:** [Check Profile](#)

• **Jaramah App:** An e-commerce application with a vision to be Amazon for Africa.

• **AC Harmony App:** Audio recorder and mixer.

(Swift 4, Realm, AVFoundation, File System, Alamofire)

## Other Technologies

2019

**Android Basics Nanodegree by Google** - Udacity:

- Developed 6 apps in Java, XML and SQL, and Tools like Android Studio and Gradle.
- Using Activities, Fragments, Adapters, RecyclerViews, ConstraintLayouts, Loaders, JSON parsing, RESTful APIs, Content Providers and SQLite Databases.
- As well as 3rd party libraries like ButterKnife.

[Check Project](#) - [See Credential](#)

**CS50 - Introduction to Computer Science by Harvard** - edX:

- Solved 8 problem sets in C, Python, SQL, JavaScript, HTML and CSS.
- Dealing with pointers, dynamic memory management, AJAX and SQLite databases.
- Tools like phpliteadmin, http-server and UNIX Shell.

[Check Project](#)

2015

Finished two courses in programming using **Python**:

- 6.00.1x: Introduction to Computer Science and Programming Using Python Offered by The Massachusetts Institute of Technology through edX. [See Credential](#)
- Programming for Everybody (Python) Offered by University of Michigan School of Information through Coursera. [See Credential](#)

2009

Desktop Applications using **Visual Basic**:

- Enjoyed developing several desktop applications from 2009 (I was 14) for personal use.

## Extracurricular Activities

2015

Participant, Project Management Workshop Participant, **ACES Student Activity**

- Learned about different project management schemes provided by Zizinia-Real Estate.

2014

Fundraising Member, **IEEE Student Activity**

- Researched the market, prepared benefit packages, proposals, called targeted funders and renewed deals.

2013

Information Technology Member, **IDT Student Activity**

- Designed the layout of the website, and coded its HTML & CSS.

## Skills

Languages:

English (Fluent), Arabic (Native)

Programming Languages:

Swift, Kotlin, Objective-C, Java, Python, C++, C

Tools:

Xcode, CocoaPods, SPM, UNIX Shell, Git, GitFlow, GitHub

Concepts:

- Clean Code and Clean Architecture
- Algorithms and Data Structures
- OOP and OOD (SOLID)
- Design Patterns (Singleton, Delegation, Observer, KVO, Coordinator, etc.)
- Architectural Patterns (MVC, MVP, MVVM, VIPER, VIO)
- Reactive Programming (Using Combine and RxSwift)
- Unit Testing - Snapshot Testing - TDD - BDD
- CI/CD

## Education

2012 – 2017

Bachelor of Engineering, **Ain-Shams University**