Mostafa Nafie

Software Engineer in iOS | Instructor

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Summary

I have always loved technology, and started programming at the age of 14. With a demonstrated 4 years of experience in designing, developing, testing, deploying, and maintaining scalable applications for the iOS platform, working in agile, fast-paced environments, dealing with clients and teams from the USA 🇺🇸, Germany 🇩🇪, KSA 🇸🇦, and Egypt 🇪🇬, and making people's life a bit better all over the world 🌍.

If I am not coding then I am probably working out. Also, I did lots of sports; swimming, kung fu, taekwondo, have a blue belt in karate, and a brown one in judo.

Experience

Jan 2022 – Present

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 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 requirement to going live.

(VIPER - Swinjict - 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 (SwftLint).
  - 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 Persistence; 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, 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, VIP) • Reactive Programming (Using Combine and RxSwift) • Unit Testing - TDD - BDD • CI/CD

Education

2012 – 2017

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