

Mohamed Ashraf

Computer Engineer, Experienced Android Engineer

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Summary

Computer Engineer with 10 years of experience designing, building and maintaining high-quality Android and cross-platform applications, from early-stage products to enterprise-scale systems for various clients. Skilled at translating business requirements into clean, well-architected software using up-to-date technologies, with a growing focus on systems architecture and technical decision-making across mobile and backend components.

Experience

Computer Engineer — CoderBot LTD • London, UK • Jan 2021 – Present

- Design, Architecting, Development and Delivery of SaaS projects, Mobile Apps, ... etc.
- Products: SaaS Products (Agentic RFP, NetSold, Finchive Business, HIRE, E-Invoice System, ... etc.) & Client Custom Projects.

Senior IoT Engineer — Vodafone International Services (VOIS) • Cairo, Egypt • May 2024 – Sep 2025

- IoT development in the Automotive Vehicle-to-Everything (V2X) industry.
- Development and maintenance of a V2X Mobile Application for Android, Android Auto and WearOS.
- Development and maintenance of a V2X Mobile SDK.
- Development of internal tools for usage and testing.
- Research and Development of public sample V2X Mobile Application in React Native.
- Development of V2X MicroService in Spring Boot.
- Product: V2X Automotive App and SDK.

Mobile Development Consultant (Contract) — Channel IT Group • Cairo, Egypt • Jun 2023 – Jan 2024

- Setting Mobile Application Architecture.
- Development of Mobile Application for Android in Kotlin and Mobile Multiplatform SDK in KMP (Android/iOS).
- CI/CD, Git, GitHub Actions, Play Store and Firebase Distribution.
- Product: FinTech Mobile App and Mobile SDK.

Senior Software Developer - Android — Vodafone International Services (VOIS) • Cairo, Egypt • Aug 2021 – Jul 2022

- Development in Kotlin/Java, code review, maintenance and unit testing.
- Agile Methodology (Scrum).
- Product: "My Vodafone" UK Android Application.

Senior Android Developer — CrossWorkers • Cairo, Egypt • Mar 2020 – Mar 2021

- Development in Kotlin/Java, code review, and maintenance.
- Re-implementation and redesign of the Android Application from scratch in Kotlin and Clean Architecture.
- Product: "Data Know How" Android Application.

Senior Android Developer — Channel VAS • Cairo, Egypt • Sep 2019 – Mar 2020

- Development in Kotlin, code review, and maintenance.
- Implementation of Mobile SDK for Android Applications.
- Agile Methodology (Scrum).
- Product: "XtraCash" Android SDK and Application.

Android Developer — Cyan Digital House • Cairo, Egypt • Dec 2018 – May 2019

- Development in Java/Kotlin, code review, and maintenance.
- Design and Implementation of structure and patterns for new applications.
- Product: Clients Dedicated Projects.

Junior → Associate Android Developer — SygmaTel (BlaBla Connect) • Cairo, Egypt • Sep 2016 – Oct 2018

- Development in Java and maintenance.
- Implementation of End-to-End Encryption Feature for the main product.
- Agile Methodology (Scrum).
- Main Product: "BlaBla Connect" Application.
- Product: "PassTo" Social Electronic Wallet Application.

Freelance

Android Development Freelancer • Cairo, Egypt • 2018 – 2026

- Independent Android development across POS (FODO), airline-employee services (Saudi Airlines Employees Co-operative — SECO), e-commerce payments (SahmOne) and healthcare (Mowafer Care) apps.
- Design, development and maintenance of Android applications.
- Java, Kotlin, Compose, Firebase, Cloud Functions.

Education

Faculty of Engineering at Shoubra — Benha University • Cairo, Egypt • Sep 2011 – May 2016

- Bachelor of Electrical Engineering (Computer Engineering Dept.) | Grade: Very Good
- Graduation Project: Crowdsourcing Navigation System | Grade: Excellent

Hafez Ibrahim Language School • Cairo, Egypt • Sep 1997 – May 2011

- High School - Mathematics Department | Grade: 95.6%

Training & Courses

Executive Education, AUC Onsi Sawiris School of Business • Cairo, Egypt • Jun 2025 – Aug 2025

- Digital Transformation: From Analysis To Strategy | Course

DeepLearning.ai & Stanford University • Coursera • Sep 2022 – Oct 2022

- Machine Learning Specialization | Path
 - Supervised Machine Learning: Regression and Classification | Course
 - Advanced Learning Algorithms | Course
 - Unsupervised Learning, Recommenders, Reinforcement Learning | Course

IBM Authorized Training Center • Cairo, Egypt • Aug 2015 – Oct 2015

- Android Development
- Java EE Development

IBM • Cairo, Egypt • Sep 2013 – Nov 2013

- Java SE Development

Skills

Core Skills: OOP, Data Structure & Algorithms, Design Patterns, Architecture Patterns, Clean Coding, Clean Architecture, SOLID Principles, Linux, HTML/CSS/JavaScript, Database (SQL/NoSQL), Version Control (SVN/GIT), CI/CD

Programming Languages: Java, Kotlin, Swift, Python, C++, Dart, JavaScript

Java Development: OOP, Maven & Gradle, Multi-Threading, Exception Handling, Files & Streams, JDBC, Swing/AWT GUI, RxJava, Dagger 2, Networking: Socket Programming - Http(s) UrlConnection - Retrofit, Web API Framework: Spark Java - Ktor Server (Kotlin), Servlets, JSP/JSF, JPA, EJB, Unit Testing: JUnit, Mockito

Android Development: Java/Kotlin, XML Layouts, Activity/Fragment/Service, JetPack Compose, MVP/MVVM/MVI, RxJava/RxAndroid, Kotlin Coroutines/Flows, Shared Preferences, Retrofit, Ktor Client, Google Maps, Mapbox SDK, Dependency Injection: Dagger 2 - Hilt - Kotlin Koin, Database: Room - Realm - SQLDelight, Architecture Components: ViewModel, LiveData, Room, Navigation, WorkManager, Data/View Binding, Firebase: Authentication, Cloud Messaging, Firestore Database, File Storage, Cloud Functions (Node.JS, Python), ML Kit, Analytics, Crashlytics, WearOS, Android Auto: CarAppService, Session, Screen, Template

Kotlin Multiplatform: Kotlin, JetPack Compose, Compose Multiplatform, Kotlin Coroutines/Flows, Swift, SwiftUI, Ktor Client, SQLDelight

Flutter: Dart, Mobile (Android/iOS) & Web Widgets, State Management, https/Dio, Realm Database, Firebase: Authentication, Firestore Database, File Storage, Cloud Functions (Node.JS, Python), Web Hosting, Analytics, Crashlytics

Python Programming: Basics, OOP, Files I/O, Modules, Data Structure: List - Tuple - Dictionary, Decorator, Generator, Multi-Threading, Exception Handling, Database: SQLite - MySQL, Networking: Socket Programming - Http(s) URL Connection - requests, Flask Web API Framework, Data Analysis: NumPy, Pandas, Matplotlib, Seaborn

Machine Learning: SciKit Learning, TensorFlow, Classification, Regression, Reinforcement Learning, Neural Networks

Internet of Things (IoT)

Language

Arabic (Native) | English (Very Good)