Salah Mohamed

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SENIOR ANDROID DEVELOPER

A dedicated Android Developer with over 4 years of experience designing, developing, and maintaining Android applications across various domains, including finance and healthcare. Have experience of significantly improving product scalability and performance by refactoring legacy code and implementing new features. Proficient in the SDLC phases of design, coding, and testing; main tech stack includes Kotlin, Compose, Java, MVI, Dagger Hilt, Coroutines, JUnit, Mockito, Mockk, and various libraries such as Retrofit and Firebase, ensuring high-quality, robust solutions.

Mobile Development • Unit Testing • Application Architecture • Architecture Patterns • Paging
Version Control • Design Patterns • Concurrency

Languages: Kotlin, Java
Web Services: REST, GraphQL, XML, JSON
Frameworks: Android SDK, Kotlin Coroutines, Kotlin compose, Dagger/Hilt, Mockito
Databases: SQLite, Firebase Realtime Database
Design Patterns: MVVM, MVI, Clean Architecture, Singleton, Observer, Iterator, Strategy, Decorator, Adapter
SDLC: Agile, Scrum
Tools: Gradle, Git, Jira, Jetpack Components, Retrofit, Room ORM, Glide
Platforms: Windows, MacOS

PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

NTG, Cairo, Egypt • 10/2023 – 04/2024
Leading IT outsourcing service provider

Senior Android Developer
Developed and mentored technical team.
- Revitalized legacy code of financial transaction system and credit card management comprehensive refactoring using clean code principles, aligning the codebase with modern standards, and improving future scalability.
- Optimized code quality of the system using SonarQube, eliminating over 30% of code issues.
- Boosted test coverage of the project by 40% using JUnit 5 and Orbit Testing Framework, ensuring higher code reliability and reducing potential defects.
- Transformed key user flows, such as Deposit and Transfer Funds, by enhancing the UI/UX through user-centered design, improving task completion speed, and increasing user satisfaction.
- Engineered and delivered new features such as bonuses and vouchers within the application using agile methodologies, expanding system capabilities and driving user engagement.

Technologies Used: Kotlin, Kotlin Compose, Dagger Hilt, Coroutines, Junit4, Orbit Testing, Mockito, Mockk.

Paymob, Cairo, Egypt • 08/2022 – 10/2023
Leading financial services enabler in the MENA-P region.

Mid-level Android Developer
Maintained & Developed e-wallet applications.
- Built several critical features, including request transaction history and a new P2P transfer flow in the CIB Smart Wallet, an e-wallet application with over 1 million downloads, using Java and Android development tools.
- Refined the user interface and user experience through a full revamp of Raseedy Wallet, improving ease of use and navigation, and significantly enhancing the overall user experience.
- Implemented multi and single Virtual Card Numbers (VCNs) for SAIB Wallet using Java, RX Java, and Android SDK to enhance security and improve transaction management.
- Developed and launched a new payment SDK using Android SDK and payment gateway integration to expand Paymob's offerings and enable merchants to process payments more efficiently.

- Collaborated with product managers, designers, and QA teams through Agile methodologies to deliver timely updates, ensuring smooth app operation and improved user satisfaction.

Technologies Used: Kotlin, Java, Koin, Coroutines, RX Java, Android SDK, Git.

KHABEER Group, Giza, Egypt • 11/2021 – 08/2022
Web-based Hospital Information Systems (HIS) designed for multi-hospital, multi-language environments.

Mid-level Android Developer
Designed and built advanced applications.
- Implemented Appointment Booking, Medicine Orders, and Online Consultations for YouMeda, a comprehensive healthcare app using Android SDK to deliver high-performance healthcare solutions.
- Coded dashboard app designed for Doctors, Labs, and Pharmacies, using the Android SDK to ensure high-performance solutions.
- Developed new features for HR Management System including managing loan requests, vacation requests, payroll processing, and appraisals to enhance user experience and product performance.
- Enhanced YouMeda Application stability and performance by troubleshooting and resolving critical issues, ensuring seamless app functionality for end-users.
- Utilized Agile methodologies to manage app development cycles, prioritizing new features and fixes to meet tight deadlines and improve app efficiency.

Technologies Used: Kotlin, java, XML, RX Java, MVVM.

Aprcot, Giza, Egypt • 09/2020 – 10/2021
Artificial intelligence driven company managing digital advertising campaigns.

Android Software Engineer
Development of mobile applications
- Developed 2awy app using Kotlin and Android SDK to build a super app that facilitates payment services, including purchasing toll tickets, and vouchers, transferring funds, and paying bills.
- Engineered 2awy Pro using Kotlin and Android development tools to create an application for providers and toll station employees, ensuring efficient management of toll services.
- Built e-pharmacy mobile app using Android SDK and integrated with the Magento backend via SOAP, focusing on product search, cart management, and order placement to enable seamless online pharmaceutical purchases.
- Implemented web scraping and automation scripts using Java, and Selenium to automatically add products to the Magento dashboard, improving the product management process.
- Designed the Intella app, handling speech recognition and transcription via APIs, using Android development tools to build a speech-to-text application capable of recognizing and transcribing various Arabic accents.

Technologies Used: Android Studio, Kotlin, XML, MVVM, Firebase, Jira, Bitbucket, Firebase Cloud Messaging, Git.

ACADEMIC PROJECTS

Maharishi International university (2024)
- **E-commerce:** This project is a basic e-commerce platform where users can browse products, add items to their cart, and complete purchases using cash. It includes an admin panel for managing products, categories, and inventory. Utilized Java, React, HTML, Typescript, CSS.

- **Framework for Banking and Credit Card Systems:** Developed a shared framework for banking and credit card systems, applying abstract factory, strategy, observer, rule, and facade patterns to centralize common banking features. This framework enables code reuse across both applications. Utilized Java, Swing.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 12/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Programming, Software Engineering, Advanced Software Development, Web Application Architecture

Bachelor in Computer Science
El-Shorouk Academy, Cairo, Egypt (07/2020)