

Mohamed Helmy

Software Engineer | Flutter Developer

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PROFILE

Aspiring Mobile Developer with strong expertise in the Android framework and Flutter SDK. Skilled in building scalable applications using Clean Architecture, MVVM, and Bloc State Management. Proven track record of integrating advanced features such as Machine Learning (CNNs) and IoT systems into mobile platforms. Eager to leverage skills in OOP, SOLID principles, and problem-solving to contribute to innovative development teams. Seeking an opportunity to contribute to innovative projects, grow as a developer, and learn from industry experts.

EDUCATION

Bachelor of computer science <i>Benha University - Faculty of Computers and Artificial Intelligence</i> Computer Science major, GPA: 3.6, G Project: Excellent	2020 - 2024 Benha, Egypt
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PROFESSIONAL EXPERIENCE

Software Engineer <i>Dxify - traineeship</i>	07/2024 - 12/2024 Cairo, Egypt
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- Designed and built multiple cross-platform mobile applications using **Flutter and Dart**, each customized to meet the unique UI/UX, feature, and performance requirements of various clients, ensuring a scalable and performant codebase.
- Participated in a dedicated enterprise mobile project for **STC**, contributing to the development of the frontend features, **state management** (e.g., **Provider/Bloc**), and integrating with RESTful APIs aligned with their operational standards.
- Led the development of a **custom Mobile-OCR solution** (utilizing **Flutter's camera/image picker and relevant SDKs**) for **Mobily**, enabling automated data extraction and processing directly within the mobile application with high accuracy.
- Designed and implemented a monthly subscription management application for **SITA**, tailored to dynamically handle different content structures and automate user-facing financial workflows and notifications.
- Built intelligent user-assistance features and in-app automation that replaced repetitive manual user tasks within the application, improving efficiency and user experience across several modules.
- Contributed to banking solutions, including system enhancements and UI/UX improvements for **ABK (Al Ahli Bank of Kuwait)**, optimizing internal workflows and introducing engaging, modern mobile interfaces to streamline banking operations.
- Delivered a full-scale mobile application for **ADCB (Abu Dhabi Commercial Bank)**, focusing on developing smooth, native-like performance and reliable data synchronization, which significantly improved the speed and reliability of client transaction.

SKILLS

Programming Languages

Dart, Java, C++, C, SQL, HTML, Assembly
Python, Kotlin

Frameworks

Flutter, MVVM, Clean Architecture, Android APIs,
Android SDK, Google Maps API, Dio, http
Provider, Bloc/Cubit, Firebase Realtime
DB / Firestore

Database

Hive, Server, My SQL Oracle, Firebase

Technologies

Sessions, Cookies, Firestore Authentication,
Version Control (Git & GitHub), AI Model
Deployment, NLP, Computer Vision, Embedded
Systems, Machine Learning, IoT

Additional Skills

OOP, SOLID Principles, Design Patterns, Data
Structure, Algorithms, ML, Deep Learning (CNN),
Unit Testing, Git, AI Models, Computer Vision,
Embedded Systems, IOT

PROJECTS

Scan Care (Graduation Project) | MVVM

Tools: Flutter, Python, CNN, Firebase, Clean Architecture, Bloc State Management, Google Maps Services, PayMent(Stripe)

02/2024- 06/2024

- Developed a medical diagnostic mobile application utilizing Convolutional Neural Networks (CNNs) to analyze medical images and detect health issues.
- Implemented secure patient-provider communication, streamlined appointment booking, and integrated reliable online payment gateways.
- Integrated Google Maps services to direct users to nearby clinics and healthcare facilities.
- Built using Clean Architecture with Bloc State Management to ensure code scalability and maintainability.
- Integrated 5 AI models, automating 60% of tasks.

Bookly App | API , MVVM

Tools: Dart, MVVM, Bloc, APIs

12/2023 -02/2024

- Engineered a book discovery application allowing users to search and read from a vast collection of books.
- Implemented complex state management using Bloc and utilized RESTful APIs for efficiently fetching and displaying book data.
- Built using the MVVM (Model-View-View Model) architectural pattern to ensure separation of concerns and testability.

Online Shopping App | API , MVVM

12/2023 - 01/2024

Tools: Dart, Firebase, MVVM ,Api ,PayMent(Stripe)

- Created a comprehensive e-commerce platform for fashion and electronics featuring cart management, a favorites system, and detailed transaction history.
- Structured the application using the MVVM (Model-View-View Model) architectural pattern for modularity.
- Leveraged Firebase for real-time data synchronization, authentication, and backend services.

Mobile Store Management Application | MVVM

09/2023 - 10/2023

Tools: Dart, MVVM, Bloc State Management, Firebase

- Developed a comprehensive mobile store management application providing distinct feature sets for administrators and customers.
- For Administrators: Implemented full CRUD (Create, Read, Update, Delete) functionality for managing product inventory, viewing detailed user records, and managing invoice processing.
- For Customers: Enabled users to browse the latest product offerings, manage purchases, and utilize a dedicated maintenance request section.
- Structured the application using the MVVM (Model-View-ViewModel) architectural pattern and Bloc State Management to ensure scalability and predictable state control.
- Utilized Firebase for robust authentication, real-time data synchronization, and reliable backend service delivery

05/2024 - 06/2024

IoT Smart Home System

Tools: Arduino, Python, Firebase, DHT11 (Sensor Integration)

- Designed and built an IoT-based smart home dashboard to remotely control various household appliances (e.g., lamps, fans) and display real-time environmental data.
- Integrated sensors, including DHT11 (for temperature/humidity), fire detection, and gas leak monitoring, to enhance home security and energy efficiency.
- Implemented voice control features for seamless, hands-free operation of lighting systems

INVOLVEMENT & INTERNSHIPS

Android developer

ITCRC

6/2022- 8/2022

Benha, Egypt

Mobile development using (Flutter)

ITCRC

8/2023 - 10/2023

Benha, Egypt

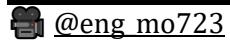
Flutter developer

Information Technology Institute– ITI

01/2023 - 04/2023

Menoufia, Egypt

YOUTUBE CHANNEL



@eng_mo723

Created and shared 100+ educational videos on software engineering, Assembly, and embedded systems. Built an engaged community with over 50,000 total views.

Example playlists:

- Assembly Development
- Embedded Systems
- Career in Google Cloud

SOFT SKILLS

Communication | Teamwork | Adaptability | Creativity | Time Management | Leadership