

# Mahmoud Ahmed Al-Saramji

Mobile Developer (Flutter) | Scalable App Design, Clean Architecture & Firebase | CI/CD & API Integration

Phone Number: [01067478640](tel:01067478640)

LinkedIn: [linkedin/mahmoud.ahmed](https://www.linkedin.com/in/mahmoud.ahmed)

Email: [mahmoudelsaramegy@gmail.com](mailto:mahmoudelsaramegy@gmail.com)

## Summary

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Mobile Developer with 3+ years of hands-on experience building scalable and maintainable cross-platform applications using Flutter and Dart. Proficient in designing clean architecture, implementing robust state management (Riverpod, Provider), and integrating Firebase services and RESTful APIs. Skilled in setting up CI/CD pipelines using GitHub Actions and managing multi-environment apps with Flavors. Known for delivering responsive, user-focused UI/UX and mentoring junior developers through community leadership roles. Eager to contribute to high-impact mobile projects in collaborative, agile teams.

## Professional Experience

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- **Flutter Lead & Mobile Developer – DSC Cairo University** Mar 2025 – Present
  - Delivered 10+ technical sessions and live coding workshops on advanced Flutter practices.
  - Mentored junior developers in clean architecture, Firebase integration, and Git workflows.
  - Reviewed open-source app code, helped improve code quality, and guided contributors through structured pull requests.
  - Organized developer events and worked closely with UI/UX designers and backend engineers on real project simulations.
  - Promoted Test-Driven Development, state management, and CI/CD adoption across community-built apps.
- **Freelance Flutter Developer – Self-employed / Remote** Jan 2023 – Present
  - Built and maintained cross-platform apps for small businesses and academic prototypes.
  - Applied Riverpod and Provider for efficient state management.
  - Integrated Firebase (Auth, Firestore, Cloud Functions) with front-end logic.
  - Supported clients with Git-based code handover and production deployment pipelines.
  - Communicated project updates, milestones, and feedback with stakeholders in English.

## Volunteering Experience

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- **Flutter Track Lead – Developer Student Club (DSC), Cairo University** Mar 2025 – Present
  - Led 10+ technical workshops and coding labs focused on Flutter development, Firebase, and clean architecture.
  - Mentored over 30 junior developers and students, supporting their learning journeys through weekly sessions and one-on-one reviews.
  - Reviewed open-source contributions, implemented GitHub workflows, and encouraged best coding practices within the community.
  - Collaborated with UI/UX designers and backend mentors to simulate real product team environments for student projects.
  - Promoted CI/CD, Test-Driven Development, and scalable state management tools like Riverpod and Provider.



- Improved testability and scalability using abstraction and separation of concerns.

## Key Projects

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- **Doctor Doc – Healthcare Appointment and Consultation App** In Development – 2025 [Doctor Doc Repository](#)

- Building a cross-platform mobile application for managing medical appointments and remote consultations.
- Designed and implemented modular Clean Architecture for scalable and maintainable code.
- Integrated RESTful APIs and Firebase Authentication to enable secure access and real-time data sync.
- Setting up CI/CD pipeline with GitHub Actions and configuring FCM for in-app notifications.
- UI/UX designed in Figma with responsive layouts focused on accessibility and ease of use.

### Tools & Technologies:

- Frameworks: Flutter, Dart
- Backend & APIs: Firebase (Auth, Firestore), RESTful APIs
- DevOps: Git, GitHub Actions, CI/CD, Flavors
- Design & UI: Figma, Material Design
- Testing: TDD

- **PomoTasks – Productivity App Based on the Pomodoro Method** In Development – 2025 (~80% Complete) [PomoTasks Repository](#)

- Developing a Pomodoro-based productivity app featuring real-time task tracking and session timing.
- Implemented cloud sync using Firebase and structured app state with Riverpod.
- Applied flutter\_test and started adopting Test-Driven Development for timer logic.
- Flavors configured to manage different build environments (dev/staging/production).
- UI designed in Figma, focused on user flow, theming, and time-focused design elements.

### Tools & Technologies:

- Frameworks: Flutter, Dart
- State Management: Bloc(Cubit)
- Backend & APIs: Firebase (Auth, Firestore), RESTful APIs
- DevOps: Git, GitHub Actions, Flavors, CI/CD
- Design & UI: Figma
- Testing: TDD

- **Fruits Store App – E-Commerce Application for Fruit Orders** Completed – Jan 2025 [Fruits Store Repository](#)

- Delivered an end-to-end shopping app with product browsing, cart, and secure checkout functionality.
- Integrated Firebase Realtime Database and Supabase for data handling and live updates.
- Implemented authentication and payment APIs, with responsive UI based on Figma design.
- Focused on clean, reusable widgets and efficient performance across Android and iOS.

### Tools & Technologies:

- Frameworks: Flutter, Dart
- Backend & APIs: Firebase (Realtime DB, Auth, Storage), Supabase
- DevOps: Git

- Design & UI: Figma, Material Design
- Testing: Manual Testing

## Technical Skills

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- Languages & Frameworks: Dart, Flutter, JavaScript (ES6), basic Swift & Kotlin
- Architecture & Patterns: Clean Architecture, MVVM, SOLID, Modular Design
- State Management: Riverpod, Provider, BLoC (familiar)
- APIs & Backend: RESTful APIs, Firebase (Auth, Firestore, Realtime DB), Supabase
- Deployment: Familiar with publishing pipelines for Play Store & App Store
- Push Notifications: Firebase Cloud Messaging (FCM), learning APNs for iOS
- Version Control: Git, GitHub, GitLab.
- UI/UX & Tools: Figma, Material Design, Responsive Layouts, Animation
- CI/CD & DevOps: GitHub Actions, Firebase Hosting CI/CD, Flavors
- Testing: TDD, unit testing and integration test
- Security: Understanding of Auth flows (access & refresh tokens), basic load balancing, and secure API communication

## Personal Skills

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- Strong communication in technical and collaborative settings.
- Team player with mentoring experience in community settings (DSC Lead).
- Analytical mindset with attention to code quality and architecture
- Fast learner and self-motivated with ability to work under pressure.
- Passion for clean code, scalable systems, and real-world problem solving
- Comfortable with remote work, task tracking, and async collaboration