Mahmoud Ahmed Al-Saramji

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

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Summary

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

- **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

- **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.

Education

- **Bachelor of Education – Mathematics** Sohag University — Graduated: July 2025
  Final Grade: Very Good – 80% (Equivalent to ~3.0 GPA)
  Core Focus: Problem Solving, Logic, Pedagogical Communication

Awards and Honors

- ECPC (Egyptian Collegiate Programming Contest) – 2023 (Participant)Practiced algorithmic thinking and team-based problem solving in one of the region's most competitive coding contests.

Languages

- Arabic – Native Language
- English – (Reading & Writing) Excellent | (Listening & Speaking) Very Good

Courses

- **Flutter Development Bootcamp – GDSC Sohag University** May – Jun 2021
  - Learned Dart fundamentals, Flutter widgets, layout systems, and responsive UI design.
  - Built multiple mini-projects using Provider and Riverpod for state management.
  - Integrated Firebase Authentication, Cloud Firestore, and Realtime Database.

- **Mobile App Development with Firebase – Udemy** Mar – Apr 2023
  - Hands-on experience with Firebase services: Auth, Firestore, Storage, FCM.
  - Built authentication flows and real-time data models for production-ready apps.
  - Implemented cloud functions and notification triggers using Firebase Cloud Messaging (FCM).
  - Applied basic CI/CD workflows and deployment simulation using Firebase Hosting.

- **UI/UX Design for Developers – Figma Practice Series** Jan – Feb 2022
  - Used Figma to design responsive interfaces and user flows.
  - Applied Material Design principles: spacing, color theory, accessibility, and consistency.
  - Converted Figma mockups into Flutter layout code.

- **Git & GitHub for Developers – Self-Paced Track** Dec 2021

- Learned Git CLI workflows: branching, merging, conflict resolution.
- Practiced pull requests, GitHub collaboration, and release management.
- Applied Git to team-based Flutter projects and maintained clean commit history.

● **Clean Architecture in Flutter – Reso Coder (Self-Paced)**   Feb – Mar 2025
    - Applied Clean Architecture principles in a modular Flutter app.

    - Designed presentation/domain/data layers with repository and use case patterns.

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

Key Projects

● **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: flutter_test

● **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: Riverpod
    - Backend & APIs: Firebase (Auth, Firestore)
    - DevOps: Git, GitHub Actions, Flavors, CI/CD
    - Design & UI: Figma
    - Testing: flutter_test

- **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, RESTful APIs
  - DevOps: Git
  - Design & UI: Figma, Material Design
  - Testing: Manual Testing

Technical Skills

- 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: flutter_test, manual testing, integration test planning

- Security: Understanding of Auth flows (access & refresh tokens), basic load balancing, and secure API communication

Personal Skills

- 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