

# Mostafa Alaa Amer

## Flutter Developer

✉ [mostafaamer172001@gmail.com](mailto:mostafaamer172001@gmail.com)

☎ +201008884285

📍 Giza, Egypt

🌐 MostafaAmer12

🌐 Mostafa Amer

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### Professional Summary

Flutter Developer with 3+ years of intensive experience delivered 10+ commercial apps and websites, and published 3+ to Google Play & App Store. Skilled in Clean Architecture, MVVM Pattern, SOLID principles, and state management (Bloc, Cubit, GetX). Proven track record in performance optimization by reducing load times by up to 50%, refactoring projects, API integration, payment gateway and integrating advanced machine learning models for real-time detection and voice recognition. Experienced across e-commerce, healthcare, and education projects, delivering scalable, high-performance solutions.

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### Work Experience

- **Flutter Instructor – Athar Accelerator (Part Time)** (November 2025 – Present)
  - Delivered structured introductory Flutter sessions covering widgets, UI building, project structure, and development workflow.
  - Guided students in setting up the Flutter environment and building their first functional mobile apps.
  - Explained core concepts such as state management basics, navigation, and responsive design.
- **Flutter Developer – CodeGate (Part Time)** (March 2025 – Present)
  - Built Flutter web projects from scratch, ensuring responsive and adaptive design.
  - Created UI/UX designs and interactive prototypes in Figma to guide development.
- **Flutter Developer – 8com Limited (Full Time)** (July 2024 – July 2025)
  - Refactored and optimized codebase to improve performance and maintainability.
  - Added new features and deployed updates on Google Play and App Store.
- **Flutter Developer – TOQ For IT (Full Time)** (November 2023 – September 2024)
  - Built apps from scratch with Google Maps integration and API connectivity.
  - Enhanced existing applications and implemented Clean Architecture.
- **Flutter Developer – CodeGate (Full Time)** (August 2022 – November 2023)
  - Developed mobile applications from scratch using Flutter, incorporating Clean Architecture and state management.
  - Collaborated with stakeholders to define requirements, design UI, and deliver high-quality apps.
- **Flutter Developer – Freelance Projects (Part Time / Self-employed)** (July 2022 – Present)
  - Delivered diverse apps including healthcare, e-commerce, and educational platforms.
  - Integrated machine learning models enabling real-time detection and recognition.

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### Education

#### Bachelor of Computer Science

(May 2023)

Minor in Bioinformatics • University of Fayoum • Fayoum, Egypt

#### SK Detector - Graduation Project (with grade A+)

Our paper is published to 2 websites which are [International Journal of AI and Emerging Technology](#) and [Research Gate](#).

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### Training and Courses

- Mobile Development using Flutter – ITI (February 2022 – February 2022)
- Bioinformatics Workshop - **Children's Cancer Hospital Egypt 57357** (January 2023 – January 2023)
- Flutter & Dart Complete Development Course - **Udemy Courses** (May 2023 – August 2023)
- Flutter Advanced Course Bloc and MVVM Pattern - **Udemy Courses** (September 2023 – September 2023)
- Flutter Clean Architecture - **Udemy Courses** (September 2023 – September 2023)

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### Highlighted Projects

- **SK Detector** (November 2022 – May 2023)

The objective of the app is to help in the detection of sickle cell anemia by identifying elongated cells.

  - Developed a custom machine learning model from scratch achieving 99.4% accuracy in detecting sickle cell anemia.
  - Built the accompanying Flutter mobile app with Firebase authentication.
  - Integrated the ML model into the app for real-time detection.

- **El Ezz Li Zbaeh** (November 2023 – November 2023)  
Meat delivery app for a Saudi Arabia butcher shop.
  - Improved app performance by **30%** through optimization.
  - Deployed the app to Google Play and App Store via the company's developer account.
- **Hafhti** (March 2024 – April 2024)  
Event booking app for renting and delivering necessary tools.
  - Added new features to enhance functionality and performance by 15%.
  - Deployed updates to Google Play and App Store.
- **Nilelon** (Jun 2024 – Jan 2025)  
Marketplace app for clothing and footwear.
  - Developed seller section for product listings, order management, and sales tracking.
  - Built buyer section for browsing, purchasing, and order tracking.
- **Zomool** (Jul 2024 – Jul 2025)  
Camel services booking app in Saudi Arabia.
  - Enhanced performance by 50% and refactored codebase to follow Clean Architecture principles.
  - Added new features to improve user experience.
  - Deployed updates to Google Play and App Store.
- **Cubuild Website** (May 2025 – Present)  
Online marketplace for selling 3D-printed products.
  - Designed UI/UX layouts and interactive prototypes in Figma.
  - Developing the website using Flutter for a responsive and user-friendly experience.

## Other Projects

- **Office Boy** (Jul 2022 – Nov 2022) – Two connected apps: one for employees to place orders, another for the office boy to receive and fulfill them.
- **Sign Sense** (Aug 2022 – Oct 2022) – Live camera sign language detection and word spelling recognition.
- **Alzheimer** (Nov 2022 – Feb 2023) – Brain scan classification for Alzheimer detection.
- **Shefaok** (Feb 2023 – May 2023) – Medicine management app with reminders and interaction checks.
- **Drom** (Apr 2023 – Nov 2023) – Housing management app for Sinai University.
- **Spectrum Stars** (May 2023 – Aug 2023) – Educational games for children with autism to support learning and engagement.
- **Al Agamy** (Dec 2023 – Jan 2024) – Car rental app; built UI and logic from scratch, integrated APIs, applied Clean Architecture.
- **Server App** (Feb 2024 – June 2024) – Server tracking app; built from scratch using Clean Architecture.
- **NFC Card** (May 2024 – Jun 2024) – Digital business card app; built from scratch using Clean Architecture.
- **NFC Card Web** (May 2024 – Jun 2024) – Web viewer for business card profiles; built from scratch using Clean Architecture.
- **Araba App** (May 2024 – July 2024) – Hajj services app; enhanced performance by 20% through code optimization and refactoring. Added new features to improve user experience and service accessibility.
- **XCar Care** (Aug 2024 – Jun 2025) – Multi-section automotive app for spare parts sellers, service providers, customers, and admin management.
- **Abraj Stay** (Dec 2024 – Jul 2025) – Hotel booking app; improved performance by 15%, refactored with Clean Architecture, enhanced booking flow, deployed updates.

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## Technical Skills

### Programming Languages & Markup

- Dart, Python, C++, HTML, JSON

### Core Technical Skills

- Object-Oriented Programming (OOP), Machine Learning, TensorFlow, Algorithms, Data Structures, Clean Code, SOLID Principles, Design Patterns, Responsive & Adaptive UI Design, API Integration (RESTful APIs: HTTP, Dio), Authentication, Localization, Notifications, Animation

### Flutter & Mobile Development

- Flutter Framework, State Management (Bloc, Cubit, Freezed Cubit, GetX), Dependency Injection (Get It), Local Database (Hive), Firebase, Firestore, Swagger, MVVM Pattern, Clean Architecture, Google Maps Integration, Postman API Requests, Flutter Web, Deployment on Google Play & App Store, Payment Gateway Integration

### Tools & Platforms

- Git, GitHub, VS Code, Android Studio, PyCharm, Figma (Design & Prototyping), Postman, Visual Studio, Swagger, Google Play Console, App Store Connect, CI/CD Pipelines

**Languages:** (Arabic (Native) | English (Upper Intermediate))