Ahmed Waheed Mostafa

Junior Flutter Developer

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SUMMARY

Flutter developer with six apps on GitHub, including a real-time multiplayer game on Firebase, an offline prayer-times app in closed testing on Google Play, on-device ML pose detection, and offline-first data with Drift and Hive. Every app supports Arabic and English with full RTL layouts. Experienced with Bloc and Riverpod, clean architecture, and thorough automated testing. Former Flutter Core Team member at GDG on Campus Zagazig.

TECHNICAL SKILLS

Mobile Development: Flutter, Dart, Android, iOS & Web, State Management (Bloc / Cubit, Provider, Riverpod)

Architecture & Patterns: Clean Architecture, MVVM, Dependency Injection (get_it), Design Patterns, OOP

Networking & APIs: RESTful APIs, Dio, http, Retrofit, WebSockets / Socket

Backend & Cloud: Firebase (Auth, Cloud Firestore, Realtime Database, Security Rules), Payment Integration

Databases & Storage: SQLite (Drift), Hive, SharedPreferences

Localization & Accessibility: Arabic / English with RTL layouts, easy_localization, text scaling, WCAG contrast

Device & Background: ML Kit Pose Detection, Live Camera, Compass & Location, Notifications, WorkManager

Programming Languages: Dart, C, C++, Bash / Shell Scripting

Tools & Practices: Git, GitHub, Linux, Unit, Widget & End-to-End Testing, Data Structures & Algorithms

EXPERIENCE & TRAINING

ALX Software Engineering Program | Feb 2023 – Feb 2024

ALX Africa — Intensive 12-month full-stack software engineering program

- Selected from thousands of applicants for the competitive 12-month program, working through an intensive, project-based curriculum covering low-level programming in C, shell scripting, system engineering, and DevOps.
- Contributed to open source during Hacktoberfest 2023, collaborating with the global developer community.
- Strengthened core computer-science skills, including data structures, algorithms, Linux, and version control with Git.

Mobile App Development — Digital Egypt Youth Program | Feb 2025 – Mar 2025

National Telecommunication Institute (NTI), Ministry of Communications and Information Technology

- Earned a 98% final score across 90 technical hours and 30 freelancing-coaching hours of mobile application development.
- Designed and delivered hands-on mobile app projects with a focus on practical, client-ready development.

Flutter Core Team Member — GDG on Campus Zagazig | 2023 – 2025

Google Developer Groups on Campus (formerly GDSC), Zagazig University

- Selected for the Flutter Core Team for the 2024–2025 academic year, after serving as a Flutter track member in 2023–2024, helping organize and deliver the chapter's Flutter sessions and activities.
- Engaged with the student developer community and supported peers through tech talks and tutorials on Flutter and Dart.

PROJECTS

Full source code available on GitHub: github.com/ahmed-waheed1

Hayya — Offline Prayer Times, Adhan & Qibla | github.com/ahmed-waheed1/hayya

Flutter, Dart, Bloc (Cubit), get_it, go_router, Hive, adhan, WorkManager, easy_localization

- Built an offline prayer-times app, in closed testing on Google Play, with on-device calculation, adhan notifications, a Hijri timetable, and a prayer tracker.
- Implemented the World Magnetic Model (WMM2025) to correct the Android compass to true north for the Qibla, verified against all 100 of NOAA's official test values.
- Made the adhan reliable with alarm-stream playback, reboot-safe scheduling and a daily WorkManager top-up; covered by 900+ tests, including every screen at up to 2.0× text in both languages.

Yalla Quiz — Real-Time Multiplayer Trivia | github.com/ahmed-waheed1/yalla_quiz
Flutter, Dart, Firebase (Realtime Database, Anonymous Auth), Bloc (Cubit), get_it, go_router, freezed, fpdart

- Built a bilingual multiplayer trivia game for Android, iOS and the web: players join a room with a 6-character code or QR scan and answer against a server-synced timer, each in their own language.
- Handled live presence and host takeover, so dropped players keep their score and the game carries on from its current phase when the host leaves.
- Tested with about 500 Flutter tests, Firebase security-rule tests on the emulator, and an end-to-end run that plays a full game across three browser sessions and checks every score.

Athar — Bilingual Habit Tracker | github.com/ahmed-waheed1/athar
Flutter, Dart, Bloc (Cubit), get_it, go_router, Hive, easy_localization, flutter_local_notifications

- Built a private, fully offline habit tracker with current and best streaks, milestone celebrations, a heatmap, a monthly calendar, and optional daily reminders.
- Delivered complete Arabic support: right-to-left layout, Arabic-Indic digits, Arabic plural forms and weeks starting on Saturday, with light and dark themes and phone, tablet and wide layouts.

Body Lens — On-Device Posture & Body Analysis | github.com/ahmed-waheed1/body_lens
Flutter, Dart, Google ML Kit (Pose Detection), Camera, Riverpod, Clean Architecture

- Built a computer-vision app using Google ML Kit to detect 33 body landmarks fully on-device, rendering a real-time skeleton overlay from both photos and a live camera feed.
- Derived body measurements, a 0–100 symmetry score, and posture issues (shoulder/hip tilt, trunk lean, head misalignment) from the detected landmarks.
- Architected the app with clean architecture and use cases, a sealed failure hierarchy, and a Result type for error handling, with analyses auto-saved to local history.

Spendly — Personal Budget & Expense Tracker | github.com/ahmed-waheed1/spendly
Flutter, Dart, Riverpod (code generation), Drift (SQLite ORM), go_router, fl_chart

- Built an offline-first budgeting app with per-category budgets, 80% spending alerts, and pie/bar spending charts, with data exportable to CSV and PDF.
- Engineered a clean three-layer architecture (presentation / domain / data) backed by a type-safe Drift SQLite database and code-generated Riverpod state management.
- Implemented full English and Arabic localization with automatic right-to-left layout, theming, and local notifications.

Rootine — Habit Tracker & Streak Analytics | github.com/ahmed-waheed1/rootine
Flutter, Dart, Riverpod (code generation), Hive, go_router, fl_chart, flutter_local_notifications

- Developed a fully offline habit tracker with daily check-ins, current and longest streak logic, a weekly bar chart, and a 30-day completion heatmap.
- Designed a pure-Dart streak calculator covered by unit tests, with repositories tested via in-memory Hive and widgets via Riverpod overrides.

ALX Software Engineering Projects | github.com/ahmed-waheed1
C, Bash / Shell Scripting, Linux

- A collection of low-level programming projects in C and shell-scripting projects covering data structures, algorithms, system engineering, and DevOps.

CERTIFICATIONS

- **Mobile App Development** — Digital Egypt Youth Program, NTI (2025, Score 98%)
- **Software Engineering Program** — ALX Africa (2024)
- **Flutter Core Team — Certificate of Completion** — Google Developer Groups on Campus, GDG Zagazig (2024–2025)
- **Flutter Member — Certificate of Appreciation** — Google Developer Student Clubs (GDSC), Zagazig (2023–2024)

EDUCATION

Bachelor of Computers and Information | **Graduated 2026**
Faculty of Computers and Information, Zagazig University, Egypt

LANGUAGES

Arabic (Native) **English** (Professional Working Proficiency)