

BARHOUMI ABDELKADER

Mobile Software Engineer — Flutter & Android Developer

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PROFESSIONAL EXPERIENCE

Oxton Digital, Tunis, Tunisia

Apr 2026 – Present

Mobile Software Engineer — Flutter & Android (Full-time, On-site)

- Built Sparta Coaching, a cross-platform fitness app (workout tracking, exercise library, training plan management) using Flutter with BLoC/Cubit, GetStream.IO for real-time chat, and Firebase Crashlytics for production monitoring.
- Migrated a production Android application (Bowling) from XML layouts + Java to Kotlin + Jetpack Compose, adopting Clean Architecture and modern UI patterns.

Tech: Flutter, Dart, BLoC/Cubit, Kotlin, Jetpack Compose, XML, Java, GetStream.IO, Firebase (Crashlytics, FCM), Clean Architecture, REST APIs.

Sifartek, Algiers, Algeria (Remote)

Feb 2026 – Apr 2026

Mobile Software Engineer — Flutter (Full-time)

- Optimized a Flutter-based mobile application for seamless IoT sensor connectivity using BLE and Wi-Fi protocols.
- Implemented local data storage with Drift, enhancing offline-first functionality for users.
- Optimized automatic cloud synchronization features to ensure data consistency and accessibility.

Tech: Flutter, BLoC/Cubit, Dart, BLE (MDS, Nordic), OpenAPI, Drift, Firebase (Storage, Cloud, FCM, Auth, Crashlytics), Cloud Sync, Testing (Unit/Widget/Integration).

Stoneslane, Dubai, UAE (Remote)

Oct 2025 – Present

Mobile Engineer — Flutter (Full-time)

- Built a B2B e-commerce app: authentication, catalog, cart/checkout, order tracking, push notifications.
- Integrated REST APIs and payment gateways; optimized UI performance with scalable BLoC/Cubit modules.
- Implemented ObjectBox for offline data persistence; established unit, widget, and integration testing. Published to Google Play and App Store.

Tech: Flutter, Dart, BLoC/Cubit, REST APIs, ObjectBox, Firebase (Auth, FCM, Crashlytics, Performance, Remote Config), Algolia Search, Google Maps, Payments, CI/CD, Fastlane, Docker.

Nexits, Paris, France (Remote)

Oct 2025 – Dec 2025

Mobile Engineer — Flutter (Full-time)

- Built a healthcare app: appointments, patient profiles, notifications, and role-based access control.
- Integrated secure backend with typed API contracts using OpenAPI/Swagger and openapi-generator.
- Implemented Drift for offline-first storage; wrote unit, widget, and integration tests with CI/CD automation. Published to Google Play and App Store.

Tech: Flutter, Dart, Riverpod, REST APIs, OpenAPI/Swagger, openapi-generator, Drift, Firebase, CI/CD, Fastlane.

EDUCATION

Polytech International, Tunis, Tunisia

2022 – 2025

Engineering Cycle: *Embedded Systems and Mobile Development*

ISET Rades, Rades, Tunisia

2022 – 2024

Master's: *Mechatronics*

ISET Rades, Rades, Tunisia

2019 – 2022

Bachelor's: *Industrial Electricity*

SKILLS

- **Mobile:** Flutter, Dart, BLoC/Cubit, Riverpod, Provider, GetX, Clean Architecture, MVC/MVVM, Material Design 3, Responsive UI, Testing (Unit/Widget/Integration)
- **Android Native:** Kotlin, Jetpack Compose, XML Layouts, Java, Android SDK, Migration XML+Java → Kotlin+Compose
- **Backend & Real-time:** Node.js (Express), WebSockets (Socket.IO), Stream.IO, PHP (Laravel), Rust (REST APIs), Authentication (JWT/OAuth2)
- **Databases:** PostgreSQL, MySQL, MongoDB, Firebase (Firestore), Drift, ObjectBox, Supabase, Appwrite
- **APIs & Services:** REST APIs, OpenAPI/Swagger, Google Maps SDK/API, Push Notifications, Payments
- **DevOps & Quality:** Git/GitHub, CI/CD, Docker, Fastlane, Firebase Crashlytics, Analytics, Figma (UI/UX)
- **Programming:** Dart, Kotlin, JavaScript, Rust, Python, PHP, C, C++

- **Languages:** Arabic (Native), English (IELTS B2), French (DELF B2)

PERSONAL PROJECTS

E-commerce App (Admin, Delivery, Customer)2025

- Built a multi-role e-commerce app (Admin, Delivery, Customer): authentication, catalog, cart, checkout, courier tracking, and push notifications.
- Developed Laravel REST API with JWT auth, role management, PostgreSQL/MySQL backend, Google Maps integration, and Qt/QML desktop dashboard.

Tech: Flutter, Dart, BLoC/Cubit, PHP (Laravel), REST APIs, JWT, PostgreSQL, MySQL, Google Maps, Firebase, Qt/QML, CI/CD, Docker, Fastlane.

Real-time Chat App2025

- Group messaging, online/typing status, read receipts, media sharing, search, and blocking.
- Built Rust (Axum) backend with WebSocket real-time communication, JWT auth, and MongoDB persistence.

Tech: Flutter, Dart, Riverpod, Rust (Axum), REST APIs, WebSockets, JWT, MongoDB, Firebase.

Smart Irrigation Control & Plant Shop2024

- Smart irrigation control, product catalog, cart, notifications with secure access rules and Cloud Functions.
- Integrated LLM-powered chatbot (Gemini API) with streaming responses and location-based weather with offline caching.

Tech: Flutter, Dart, GetX, Clean Architecture, Rust (Axum), REST APIs, Gemini API, Streaming, Firebase (FCM, Storage, Cloud Functions), CI/CD, Docker, Fastlane.

CERTIFICATIONS

- Claude Code in Action — Anthropic
 - CI/CD with Jenkins and Docker — Udemy
 - The Complete MongoDB Developers Course — Udemy
 - Rust Programming Bootcamp — Udemy
 - Data Structures and OOP with C++: CS104, CS105 Masterclass — Udemy
 - NodeJS Projects Bootcamp 2025: Learn by Doing — Udemy
 - PostgreSQL Bootcamp: Complete Beginner to Advanced Course — Udemy
 - Flutter & Firebase Chat App — Udemy
 - Dart & Flutter: Complete Development Course — Udemy
- Jan 2026

Sep 2025

Sep 2025

Jul 2025

Jul 2025

Aug 2025

Aug 2025

Jun 2025

May 2025