MOUNDHIR BACHENE

Flutter Developer

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PROFESSIONAL SUMMARY

Flutter Developer with 4+ years of professional experience delivering production-ready mobile systems. Experienced in Clean Architecture, offline-first design, and financial logic. Built distribution, inventory management, and food delivery platforms with hardware integrations and robust local persistence.

PROFESSIONAL EXPERIENCE

Founder & Lead Flutter Dev | Moody – Food & Mood | Food Ordering + Restaurant Management | Jan 2025 – Present

Leading product design, development and go-to-market for a new dual sided app, targeting Gen Z users & local restaurants partners.
- Built end-to-end system with Flutter, Riverpod and Firebase (Auth, Realtime DB, FCM, security rules).
- Merchant features: order lifecycle (accept → ready → complete), menu/prices, stock, discounts & promo codes.
- Consumer features: multi-restaurant cart, delivery/pickup, location-based filtering and real-time updates.
- Ownership: product roadmap, QA, deployment strategy, user onboarding for launch.
- Implemented guest mode with seamless guest→user data migration and robust error/permission handling.
- Optimized performance (lazy load, image caching, debounced search) and applied clean architecture patterns.

Flutter Developer | Van Distribution (Offline-First) | Nov 2025 – Jan 2026

Direct Store Delivery (DSD) and Van Sales mobile solution for distributors and wholesalers that enables field teams to perform sales, manage multi-depot inventory, and reconcile daily finances while operating entirely offline — eliminating manual data entry, reducing stock discrepancies, and ensuring reliable reconciliation with central systems.

- Built a high-performance, local-first mobile DSD using Flutter and SQLite (sqflite) to support full business operations without internet connectivity.
- Implemented transactional updates and conflict-safe synchronization to ensure financial and stock accuracy.
- Built XML-based enterprise synchronization (DATAPACKET format):
    - Morning import for van stock, pricing, and client data.
    - Evening export for sales, payments, inventory, and balance reconciliation.
- Integrated Bluetooth printing, PDF reporting, barcode scanning, and GPS geo-tagging.
- Developed multi-depot inventory logic (unit/carton tracking) and ledger-style financial modules (CA, payments, balances).
- Implemented device-based activation and licensing control.

Flutter Developer | Stock Manager | Aug 2025 – Nov 2025

Professional inventory and sales manager for retail/wholesale stores that enforces data integrity, automates credit/payment reconciliation, and secures local access — solving inventory mismatch, slow cash closing, and insecure device access.

- Developed an offline-first inventory system using Flutter and SQLite with secure local persistence.
- Designed relational database schemas for inventory, suppliers, clients, and debt tracking.

- Implemented advanced credit management with automated payment allocation across outstanding balances and advances.
- Built daily closing (Clôture) workflows to track daily turnover and profit margins, capturing costPrice at time of sale.
- Developed secure authentication suite (activation keys, PIN, biometrics via local_auth).
- Integrated PDF receipts and Bluetooth thermal printing.

Flutter Developer | Van Distribution (Cloud-Sync) | Oct 2024 – Mar 2025

Mobile Distribution Management System that lets distributors (multi-van field teams) perform sales, manage inventory and reconcile finances in low- or no-connectivity environments — removing manual paperwork, preventing stock errors, and speeding up daily financial closing.

- Built DSD system using Flutter with BLoC and Repository Pattern.
- Implemented hybrid storage architecture (SQLite + Firebase Realtime DB) with eventual consistency.
- Designed custom Firebase caching engine (TTL + memory optimization) for low-connectivity environments.
- Developed atomic financial transaction logic ensuring accurate turnover, payments, and balance updates.
- Integrated dynamic PDF generation and Bluetooth thermal invoice printing.
- Engineered mobile app as real-time extension of desktop management software for synchronized inventory and oversight.

Blockchain & Data Analyst | Krea8te (Sastanaqqam) | Algiers, Dubai | Apr 2022 – Sep 2024

Technical Execution & QA: Managed MPC wallet configuration, executed token vesting contracts, and led QA for NFT marketplace features (minting, rentals, royalties, WalletConnect).

Product & Documentation: Designed wallet UX flows and collaborated on whitepapers and investor pitch decks.

DeFi & Ecosystem Analysis: Analyzed DeFi protocols and tokenomics to identify DApp integration opportunities; represented the company at international blockchain events.

EDUCATION

MSc in Fundamental Informatics & Information Technology | People's Friendship University of Russia (RUDN) Moscow | 2019 – 2021
BSc in Computer Science | Yahia Fares University of Medea — Medea, Algeria | 2015 – 2018

TECHNICAL SKILLS

- **Frameworks & Languages:** Flutter, Dart, Material 3, SQL (SQLite).
- **State Management:** BLoC, Riverpod, Provider.
- **Architecture:** Clean Architecture, Repository Pattern, Offline-First Sync.
- **Backend & Cloud:** Firebase (Firestore, Auth, Realtime DB, Cloud Functions, FCM).
- **Specialized Integrations:** Biometrics (local_auth), Bluetooth Thermal Printing, Barcode Scanning, GPS, PDF Generation.
- **Data & Analysis:** Blockchain & DeFi, Data Analysis, Tokenomics, Data Visualization.

LANGUAGES

Arabic: Native | English: Advanced (IELTS 7) | French: Advanced | Russian: Upper-Intermediate