

hint: logos' include hyperlinks.

MOHAMED AEMOURA

MOBILE ENGINEER

I am a dedicated mobile engineer with a passion for crafting exceptional digital experiences. My expertise lies in building and designing innovative mobile solutions that seamlessly blend user needs with business goals. I thrive on tackling challenges and am always eager to learn and evolve in the ever-changing landscape of mobile development.



EDUCATION

libyan british university

- Bachelor Degree Software Engineering

SKILLS

iOS Development

Android Development

Cross Platform Tools - Flutter & React Native

API Integration - RESTful APIs

Performance Optimization

Unit testing & UI testing

CONTACT

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 Benghazi , Libya

EXPERIENCE

Nov-2024 - present



Future Communications And Information Technology mobile engineer - part time



Wahda Bank Mobile Banking Application

Developed a cross-platform mobile banking app for Wahda Bank for iOS and Android. Built using modern mobile development practices with a clean architecture.

Key Features & Responsibilities:

- Financial Services: Money transfers (LyPay, Dollar, Wallet, MobiCash), salary advance loans, account statements, bill payments, QR code payments, and voucher purchases
- Security & Authentication: Biometric authentication, secure user verification, and KYC (Know Your Customer) onboarding for individuals and businesses
- User Experience: Dark mode, bilingual support (Arabic/English) with RTL, responsive UI, and smooth animations
- Technical Implementation: RESTful API integration, pagination, local caching, push notifications, dependency injection, and state management

Technical Stack:

- Dart • REST APIs • Local Database • State Management • Biometric Authentication • Localization • Dark Mode
- Architecture & Best Practices:
- Clean Architecture with feature-based modular structure

- Repository pattern for data abstraction
- MVVM pattern with ViewModels
- Dependency Injection for testability
- Error handling and user feedback
- Code organization and maintainability

- User Experience: Dark mode with theme switching, bilingual support (Arabic/English) with RTL layout, responsive UI design, smooth animations and transitions, shimmer loading states, and pull-to-refresh functionality
- Technical Implementation: RESTful API integration with error handling, JWT token-based authentication, local data caching with SharedPreferences, PDF generation and viewing, file sharing capabilities, and date picker integration

Technical Stack:

- Flutter • Dart • Firebase Cloud Messaging
- REST APIs • BLoC/Cubit State Management
- PDF Generation • Local Storage
- Push Notifications • Localization
- Dark Mode

Architecture & Best Practices:

- Feature-based modular structure with separation of concerns
- BLoC pattern for state management and reactive programming
- Service layer architecture for API abstraction
- Repository pattern for data management
- Dependency injection for testability and maintainability
- Comprehensive error handling with user-friendly feedback
- Code organization following Flutter best practices
- Responsive design for various screen sizes



Libyan Cement Company (LCC) Customer Service Mobile Application

- Developed a cross-platform mobile application for the Libyan Cement Company to provide customer service and account management for iOS and Android. Built using modern Flutter development practices with a clean, maintainable architecture.

Key Features & Responsibilities:

- Account Management: Multi-account support with account switching, real-time balance display, account statements, sales and deposits tracking, and account label management
- Financial Services: Transaction history with date range filtering, PDF statement generation and export, share functionality for transaction reports, and detailed transaction views
- Product & Service Catalog: Product browsing with detailed information, service cards for quick access, and catalog organization with categories
- Delivery Management: Order tracking system, delivery status updates, and detailed delivery information
- User Authentication & Security: Secure login system, SMS-based password reset with OTP verification, password change functionality, and KYC (Know Your Customer) registration for individuals and businesses
- Notifications: Firebase Cloud Messaging integration, push notifications, local notifications, and notification history



mobile engineer - part time

Jan-2023 - present

Tatweer Research



Digital Production Platform

- Optimized database queries and data models to handle large-scale oil production datasets more efficiently.
- Improved backend performance and reliability through query optimization, caching strategies, and better error handling.
- Collaborated closely with team members and stakeholders to understand operational needs and translate them into technical solutions.
- Participated in code reviews, debugging sessions, and system improvements, contributing to overall code quality and platform stability.
- Maintained and updated technical documentation for both mobile and backend components.
- Supported production releases, monitored system behavior, and addressed post-deployment issues to ensure continuous system availability.

Mobile Application Engineer → Mobile & Backend Engineer

- Expanded responsibilities from mobile-only development to full ownership of backend features and problem resolution.
- Became a key point of contact for feature implementation, bug fixing, and system improvements across mobile and backend layers.

- Joined the Digital Production Platform (DPP) project during an active development phase, initially contributing as a Mobile Application Engineer.
- Took responsibility for developing and enhancing the mobile application, implementing new features, improving existing functionality, and resolving performance and stability issues.
- Refactored parts of the mobile codebase by applying Clean Code principles, improving readability, maintainability, and long-term scalability.
- Applied MVVM architecture and modular design patterns to enhance the structure of the mobile application and simplify future development.
- Gradually assumed responsibility for the backend system using Laravel, becoming a key contributor to backend development and maintenance.
- Designed, implemented, and extended RESTful APIs to support new mobile features and evolving business requirements.
- Added new backend features and enhanced existing services to support oil production prestations and analytics workflows.
- Investigated and resolved critical backend and mobile issues, including data inconsistencies, performance bottlenecks, and API communication problems.

- Enhanced security measures by implementing industry best practices in authentication, authorization, and data protection to secure sensitive oil production data.
- Collaborated closely with the development team to enforce coding standards, conducting code reviews to ensure adherence to clean code principles and design patterns.
- Achievements:
 - Improved code quality and maintainability, leading to reduced technical debt and enhanced overall software scalability.
 - Successfully deployed a high-performing, scalable, and secure mobile app that is crucial to the operations of the National Oil Corporation



Jan-2022 - 2025

EMATEC - part time

Mobile Engineer - part time



Project - Spitar

- Enhanced the Spitar app by adding multiple features and fixing bugs.
- Applied the MVVM design pattern to ensure a well-structured and maintainable app architecture.
- Implemented clean code principles to enhance code readability, modularity, and maintainability.
- Conducted thorough testing to identify and resolve issues, resulting in improved app stability and user experience.
- Ensured compliance with the respective guidelines and requirements of the App Store and Google Play during the publishing process.

Spitar GPT Service:

- Integrated an AI-based service offering several features:
- Read medical reports and prescriptions: Upload or photograph the report for an accurate overview in seconds.
- Learn about medications: Get detailed information about any uploaded medication.
- Read inBody reports: Receive immediate and accurate analysis of inBody reports.

Interface and Performance Improvements:

- Made significant enhancements to the app's interface and performance, resulting in a smoother user experience.

Achievements:

- Contributed to the app's growth, reaching over 300k users.
- Improved app stability and user satisfaction through feature expansion and bug fixes.

Pharmacy Service:

- Users can now order medications through the app with multiple methods:
- Photographing the prescription: Upload a photo of the prescription directly in the app.
- Writing the medication name: Type the name of the required medication.
- Voice Message: Send a voice message with the name of the medication.
- The service ensures medication is delivered to the user's doorstep promptly.

Home Care Service:

- Enabled users to request specialized doctors or nursing teams to provide medical care at home.
- The service caters to specialized medical needs or nursing services, accessible through the app.



- Notifications: Real-time push notifications for appointments, updates, and important alerts using Firebase Cloud Messaging

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Technical Stack:

- Dart
- Flutter
- Firebase (Auth, Messaging, App Check)
- REST APIs (Dio)
- Hive (Local Database)
- Provider (State Management)
- GetIt (Dependency Injection)
- GoRouter (Navigation)
- Secure Storage
- Image Processing
- Localization

Architecture & Best Practices:

- Clean Architecture with feature-based modular structure
- Repository pattern for data abstraction and API integration
- MVVM pattern with ViewModels for business logic separation
- Dependency Injection using GetIt for testability and maintainability
- Encrypted local caching with Hive for offline data access
- Error handling and user feedback mechanisms
- Code organization with separation of concerns (domain, data, presentation layers)
- Environment-based configuration for development and production

- Developed a comprehensive cross-platform mobile healthcare application for doctors on iOS and Android. Built using modern mobile development practices with clean architecture principles to manage medical practice operations efficiently.

Key Features & Responsibilities:

- Medical Practice Management: Doctor appointment scheduling, reservation management with status tracking (confirmed, pending, cancelled), schedule management, and vacation planning
- Patient Records: Medical files management, patient details tracking, lab results integration, and medical history access
- AI-Powered Services: Integrated Spitar GPT service for AI-assisted medical consultations, prescription generation, and medical analysis with image processing capabilities
- Healthcare Services Integration: Home care services, pharmacy integration, lab test management, and specialty-based service filtering
- Authentication & Security: Secure doctor registration with OTP verification, Firebase authentication, encrypted local storage, and secure API communication
- User Experience: Bilingual support (Arabic/English) with RTL layout, responsive UI design, smooth animations, and intuitive navigation
- Payment Integration: Multiple payment options for medical services with secure transaction handling



Project – Spitar Receptionis

- Enhanced the Spitar app by adding multiple features and fixing bugs.
- Applied the MVVM design pattern to ensure a well-structured and maintainable app architecture.
- Implemented clean code principles to enhance code readability, modularity, and maintainability.
- Conducted thorough testing to identify and resolve issues, resulting in improved app stability and user experience.
- Ensured compliance with the respective guidelines and requirements of the App Store, utilizing Unlisted app distribution for seamless deployment.



2023 - 2024

Fannak

Mobile Developer - full time



Project – University of Benghazi Official App

- I enhanced, added features, and published the UOB app on the App Store and Google Play. I optimized performance, improved the user interface, and implemented push notifications.



Project – Radio Madinati fm App

- I Developed the Radio Madinati FM app and ensured its compliance with the App Store review guidelines. After enhancing the app's features and functionality, I published it on both platforms. Along with optimizing performance and improving the user interface, I also implemented push notifications to enhance user engagement and keep them informed about the latest updates. The Radio Madinati FM app now offers an improved user experience while adhering to the rigorous standards set by the app review processes.



Project – Radio Libya fm App

- I Developed the Radio Madinati FM app and ensured its compliance with the App Store review guidelines. After enhancing the app's features and functionality, I published it on both platforms. Along with optimizing performance and improving the user interface, I also implemented push notifications to enhance user engagement and keep them informed about the latest updates. The Radio Madinati FM app now offers an improved user experience while adhering to the rigorous standards set by the app review processes.



Project – Invest in Libya App

Mobile & Backend

- Developed the Invest in Libya app, which serves as an official guide provided by the General Authority for Investment Promotion and Privatization Affairs.
- Implemented a clean architecture approach to ensure a well-structured, scalable, and maintainable mobile application.
- Integrated comprehensive data about local companies, institutions, open opportunities, and supporting business data, making it a valuable resource for users.
- Worked on the Laravel backend, managing the data operations and business logic, ensuring the app's data is accurate, up-to-date, and efficiently processed.
- Collaborated with stakeholders to ensure the app meets the needs of businesses and institutions in Libya.
- Applied clean code principles throughout the project to enhance code readability, maintainability, and modularity.



2020 - present

Nirlo - co-founder

Mobile Engineer

- Designed and developed the full-stack e-commerce Nirlo app, demonstrating expertise in the entire app development lifecycle.
- Utilized the Laravel framework for backend development, ensuring robust functionality, scalability, and performance.
- Leveraged Firebase services to enhance the app's backend capabilities, optimizing user experience and effective data management.
- Implemented comprehensive e-commerce functionalities, including a shopping cart, secure payment integration, efficient order management, and user authentication.
- Developed the mobile app frontend using Flutter, delivering a seamless and intuitive user interface across multiple platforms.
- Successfully launched the Nirlo app on both Google Play and the App Store, reaching and engaging a wide range of users.
- Demonstrated proficiency in full-stack development, encompassing backend (Laravel) and frontend (Flutter) technologies.
- Showcased expertise in e-commerce development, ensuring a secure and user-friendly shopping experience.
- Highlighted the ability to manage end-to-end app development processes, from initial design to production and deployment, resulting in a seamless user journey.
- Employed agile development methodologies to efficiently manage project timelines and collaborate with cross-functional teams.
- Integrated advanced search and filtering capabilities, enhancing the app's usability and helping users find products more easily.
- Implemented personalized recommendations and product suggestions, enhancing the app's user experience and driving sales.
- Optimized app performance and loading times through efficient coding practices and optimized database queries.
- Utilized push notifications and in-app messaging to keep users informed about promotions, order updates, and personalized offers.
- Integrated third-party analytics tools to gather insights on user behavior and make data-driven decisions for app improvements.
- Collaborated with UI/UX designers to ensure a visually appealing and intuitive user interface that aligns with modern design trends.
- Implemented robust security measures to protect user data, including encryption, secure authentication, and adherence to privacy regulations.
- Conducted thorough testing and debugging to identify and fix issues, ensuring a stable and reliable app experience for users.
- Provided ongoing support and updates to address user feedback, resolve issues, and introduce new features to drive app engagement.



2022 - 2023
governancehouse
Mobile Developer

Responsibilities:

- Led the development of the mobile side of the Eboard app, a comprehensive solution for organizing, scheduling, and sending alerts for company meetings.
- Implemented key features on the mobile platform, such as:
- Interactive scheduling tools: Allowing users to easily create, modify, and view meeting schedules.
- Real-time alerts and notifications: Ensuring users are promptly reminded of upcoming meetings.
- Meeting management tools: Enabling users to track attendance, set agendas, and manage meeting details directly from the app.
- Optimized the user interface (UI) for a seamless and intuitive user experience, focusing on ease of navigation and accessibility across various mobile devices.
- Applied clean architecture principles, ensuring the app's mobile codebase is modular, maintainable, and scalable, making it easier to introduce new features and updates.
- Collaborated closely with the backend development team to integrate mobile functionalities with the backend services, ensuring seamless data synchronization and user experience.
- Conducted rigorous testing on various mobile devices to ensure compatibility, performance, and stability, addressing any bugs or issues prior to release.
- Enhanced security features on the mobile side to protect sensitive meeting information, implementing encryption and secure authentication methods.

Achievements:

- Delivered a feature-rich mobile app that has significantly improved how companies organize and manage meetings, contributing to increased efficiency and productivity.
- Enhanced user engagement and satisfaction by providing a responsive, intuitive, and reliable mobile experience.
- Played a key role in ensuring the mobile app's smooth operation, aligning closely with the backend systems for a unified user experience.



Panda kit Nov 2022 - Dec 2022
Mobile Developer - Per Task

Responsibilities:

- Fixed issues and implemented minor features to improve the app's functionality and user experience.
- Enhanced the app's performance and stability by addressing bugs and refining existing features.

App Overview:

- Panda LY provides parents with the ability to monitor and track their children effectively through instant and efficient communication. Key features include:
 - Reports: Allows guardians to view simplified behavioral and academic reports for each child, periodically updated by specialists.
 - Advertisements: Provides a centralized view of all announcements from the school administration and specialists.
 - Messages: Facilitates direct and immediate communication between guardians and specialists, with the capability to manage messages separately for each child.
 - Children: Displays a comprehensive list of all the guardian's children registered in the system, covering all educational levels and schools across registered cities.



Riter

Mobile Engineer - Full Stack

Responsibilities:

- Designed and developed the Riter app, an all-in-one platform for writing, publishing, and reading stories.
- Mobile Development:
 - Utilized iOS SwiftUI to create a seamless and intuitive user interface for a comprehensive writing and reading experience.
- Backend Development:
 - Developed and maintained the backend using Laravel for robust server-side logic.
 - Implemented Firebase for real-time database management and user authentication.
- Implemented advanced features:
 - AI Story Generation: Integrated AI to assist users in generating creative story ideas and content.
 - AI Voice-Over Reader: Added a feature for AI-driven voice-over reading of stories, enhancing accessibility and user engagement.
 - Writing Tools: Provided advanced tools for crafting, editing, and managing stories.
 - Publishing Interface: Enabled easy publishing and sharing of stories with a global audience.
 - Recommendation System: Offered personalized story recommendations to users.
- Fostered a community for both writers and readers, enhancing the interactive and creative aspects of the app.

App Overview:

- Craft Your Masterpiece: Advanced tools for writing, from planning to editing.
- Share Your Stories: User-friendly publishing and sharing features.
- Discover Captivating Reads: Personalized recommendations and diverse reading options.
- AI Features: Story generation and voice-over reading for an enhanced user experience.
- For Writers and Readers: A vibrant community celebrating storytelling.

Achievements:

- Successfully launched Riter, incorporating cutting-edge AI features to support creative expression and user engagement.
- Contributed to the app's success by integrating innovative technologies and maintaining a robust platform for users.