

Mohammed Ashraf Ezz

Senior Mobile Application Engineer

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📅 2002/01/01 🧑 Male 🇪🇬 Egyptian 📞 +201121926996 📺 MohammedEzz_ 🔗 Portfolio

Profile

Senior Mobile Application Engineer specializing in Flutter and production-grade mobile applications, with hands-on experience in navigation systems, real-time GPS processing, routing engines, offline-first architecture, and scalable mobile application design. Experienced in Flutter architecture, BLoC-based state management, REST API integrations, Firebase, MapLibre, Valhalla, OSRM, geospatial navigation concepts, and performance optimization. Also experienced in technical training and data analytics using SAS Viya.

Education

B.S Computer Science 2020/07 – 2024/07
Faculty of Computers and AI, Sadat City University

Experience

Senior Mobile Application Engineer, Naveera Tech 2025/11 – Present
• Leading Flutter mobile development and architecture improvements.
• Developing production navigation features using MapLibre, Valhalla, and OSRM.
• Contributing to routing, GPS processing, offline-first architecture, and navigation reliability.
• Collaborating with product, backend, routing, and QA teams to deliver scalable mobile solutions.

SAS Instructor, Arab Academy For Management, Banking, And Financial Sciences 2024/08 – present
• Delivered structured training on SAS Viya, focusing on data analytics and AI-driven decision-making.
• Conducted hands-on sessions to enhance students' data analysis, visualization, and basic machine learning skills.

Flutter Developer, TPTC 2024/08 – 2025/11
• Developed cross-platform apps using Flutter for Android & iOS.
• Refactored and optimized code for performance and scalability.
• Integrated REST APIs, Firebase, and payment gateways.
• Worked closely with designers to deliver clean, user-friendly UIs.

Volunteer Experience

Live on mars Helwan University, Flutter Instructor 2023 – 2024
• Taught **Flutter development** to over **100+ students**, covering **state management, API integration, and UI/UX design**.
• Provided real-world project experience and hands-on coding challenges

Mobjoy University of Sadat City, Flutter Instructor 2023 – 2024
• Taught **Flutter development** to over **50+ students**, covering **state management, API integration, and UI/UX design**.
• Provided real-world project experience and hands-on coding challenges

Projects

Naveera Driver 2025/11 – Present
• Built and improved navigation functionality using Flutter, MapLibre, Valhalla, and OSRM, including multi-provider routing, fallback, and rerouting.
• Implemented GPS-to-route snapping, route-progress tracking, and geospatial calculations for accurate real-time navigation.
• Worked with encoded polylines, route geometry, bearings, navigation steps, and remaining-route calculations.
• Developed off-route detection, heading fusion, and short-horizon dead reckoning to improve navigation stability under noisy or interrupted GPS conditions.
• Contributed to offline-first navigation, route caching, trip continuity, and navigation-session recovery after application restarts.

Yimnak - يَمْنَاك

"Yimnak" connects you with trusted helpers ready to complete tasks in every city across Saudi Arabia!

- Connects users with verified and trusted helpers
- Offers on-demand maintenance and inspection services
- Supports task execution in all regions of Saudi Arabia
- Fully integrated local services platform with real-time tracking and payment features

3aber Vendor App - الترتك لصاحب عابر , Vendor management application that helps vendors track orders, manage inventory, and handle customer requests efficiently. Features real-time order tracking and vendor dashboard.

- Order management
- Inventory tracking
- Real-time notifications
- Vendor dashboard

UrStay, (Smart Property Rentals)

- **Saudi-based property rental platform** supporting apartments, chalets, and hotel units.
- **Simplified and secured the rental and booking process** for users in Saudi Arabia.
- Integrated **secure booking, payment gateways, and multi-language support (Arabic, English)**.
- Implemented **role-based access** for property owners and renters.

Technical Skills

Programming Languages:

- Dart, C++, Python, Java, SQL, C#, JavaScript

Flutter Development:

- **State Management:** BLoC, Provider, GetX
- **Backend & Databases:** Firebase, Supabase, MongoDB, SQL Server
- **Third-Party Integrations:** Payment Gateway (Stripe, paymob), Google Maps API
- **Other:** Clean Architecture, Animations, Localization, Shared Preferences, Sqflite, hive

Navigation & Geospatial

- MapLibre, Valhalla, OSRM, GPS & Location Services, Route Snapping, Route Progress Tracking, Polyline Processing, Map Matching Concepts, Heading Fusion, Dead Reckoning

Tools & Platforms:

- Git & GitHub, Figma, Firebase, VS Code, Android Studio, SAS Viya ,

Operating Systems:

- Windows, Linux, MacOS

Soft Skills

- Leadership & Team Collaboration, Time Management, Problem-Solving & Critical Thinking, Mentoring & Training

AI & Data Analytics:

- Python (NumPy, Pandas, Matplotlib)
- SAS Viya
- Machine Learning Basics (Classification, Regression, Clustering)
- Data Visualization & Reporting

Training

web development training in ITI

Flutter course at Udemy , The Complete 2022 Flutter & Dart Development Course

Flutter course , Flutter & Dart Complete Development Course

Flutter advanced Course

Languages

- Arabic
- English