

Mahdi Darwish

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Profile

Motivated Computer Engineering graduate from the Lebanese International University (LIU), skilled in Java and Android development, with growing expertise in Flutter and Firebase. Experienced in hardware and software projects, with strong problem-solving skills and a passion for building impactful mobile applications.

Education

Bachelor of Computer Engineering, Lebanese International University (LIU), Beirut Campus
Graduation: July 12, 2025

Technical Skills

Programming: Java (Intermediate), Dart (Familiar) HTML 5, CSS 3

Frameworks & Tools: Android SDK, Flutter (in progress), Firebase (in progress), XAMPP

Embedded Systems: ESP32, HX711, LCD (I2C)

Scientific Computing: Octave (Scripting & Syntaxes), Numpy (Python Library)

Concepts: Data Structures & Algorithms

Projects

Smart Shopping Cart System

- Developed a prototype using ESP32, HX711 sensor, and LCD for automated item detection and real-time weight verification.
- Reduced checkout waiting time by enabling queue-free payments.
- Collaborated with a teammate to integrate hardware and software components.

Basketball Center Booking System

- Built a Java-based booking platform with XAMPP backend for court scheduling and reservations.
- Implemented admin tools for schedule management and reporting.
- Delivered as part of a 4-member team project.

FM Receiver

- Constructed an analog FM radio receiver (88–108 MHz) with a tuner, demodulator IC, and speaker.
- Demonstrated understanding of communication systems and circuit design.

Restaurant Flutter App

- Created a mobile app with tab-based menu navigation, login/signup system, and cart functionalities.
- Developed a fully functional restaurant app using Flutter and Firebase (Authentication & Firestore Database).
- Implemented a signup/login system with role selection (Customer or Worker).
- Customers: Navigate to menu, shop, and checkout; provide delivery location & phone number; confirm order with total price summary.
- Workers Dashboard: Displays customer orders with email, phone, location, and selected items (name, image, description, quantity, price), and total, to serve orders.
- Ensured real-time synchronization with Firebase Firestore for order management
- Focused on clean UI/UX design and widget organization.
- Applied clean code principles and reusable components

Portfolio Website

- Developed a portfolio website for myself in which included multiple sections, a projects section in which I included all the projects done.
- Focused on HTML and CSS, and especially semantic HTML structure

Online Store Shopping Flutter App

- Developed an online shopping app with clean UI/UX and reusable components.
- Used TabBar to categorize products with image, description, price, and add-to-cart button, remove from cart button, functionalities
- Built cart and checkout pages supporting quantity adjustments and order confirmation.
- Integrated Firebase Authentication for user and worker login/signup.
- Managed product data and orders via Firebase Realtime database.

- Created a workers dashboard to view and update assigned items.
- Implemented password reset via email link sent to the spam section.
- Followed modular architecture and best coding practices for maintainability.

Languages

English: Fluent

Arabic: Native

Soft Skills

- Strong problem-solving and analytical thinking
- Adaptability and eagerness to learn new technologies
- Effective teamwork and communication in group projects
- Time management and the ability to work independently