

# 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), Python (Familiar with Numpy library)  
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 tuner, demodulator IC, and speaker.
- Demonstrated understanding of communication systems and circuit design.

### Coffee Shop Flutter App

- Created a mobile app with tab-based menu navigation, login/signup system, and cart functionalities.
- Focused on clean UI/UX design and widget organization.
- Applied clean code principles and reusable components.

## 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 ability to work independently