

# Alaa Ali Mousa

Mobile App Developer — Cross-Platform (Flutter)

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LinkedIn GitHub Portfolio

## Profile

Motivated **Flutter Developer** with a strong understanding of Dart, Firebase, RESTful APIs, and real-time data integration. Experienced in building cross-platform mobile applications with clean architecture, responsive UI, and efficient performance. Passionate about creating smooth, modern user experiences and continuously improving through new technologies.

## Education

**Delta Technology University – IT Software Major**

Sept 2022 – Expected June 2026

Bachelor's Degree in Information Technology and Software

**Current Status:** 4th Year Student (*Expected Graduation: June 2026*)

**Academic Excellence:** Achieved Distinction Grade for three consecutive academic years.

## Experience

**Flutter Developer – Personal & Academic Projects**

2022 – Present

- Developed multiple cross-platform mobile applications using Flutter and Dart, focusing on clean UI, real-time data, and responsive layouts.
- Built applications using Firebase Authentication, Firestore, Local Storage (SQLite), and RESTful APIs.
- Applied modern state management patterns including Provider, Riverpod, and setState depending on project complexity.
- Designed complete app structures including navigation flows, theming (Light/Dark Mode), and component-based UI.
- Implemented and optimized custom backend-like logic inside apps, including validation, caching, and data handling.

**Lead Developer – Flower App Project (Major Flutter Application)**

2023 – 2024

- Developed a fully functional e-commerce-style mobile app for browsing, searching, and purchasing flowers.
- Built a complete custom database structure (local + simulated backend logic) without relying on external APIs.
- Implemented advanced features, including:
  - Cart system with dynamic total calculations.
  - Favourites list with persistent local storage.
  - Category filtering and product details screens.
  - Responsive design for various screen sizes.

- Designed the entire UI using modern Flutter components, ensuring smooth animations and a clean user experience.

**Mobile Developer – Problem-Solving & Practice Projects**

2022 – 2024

- Completed more than **10 practical apps** covering Authentication, API integration, state management, and scalable app structure.
- Built real-time apps (Chat App), API-based apps (Weather, News), and educational apps (Toku App).
- Strengthened debugging skills, UI/UX optimisation, and performance tuning through continuous hands-on development.

## Projects

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### Smart Irrigation System (IoT)

- Built an automated irrigation system using Arduino, a water pump, and moisture sensors.
- Implemented real-time monitoring and automatic water control for efficient irrigation.

### Food App (Flutter)

- Designed a full recipe app with images, ratings, and API-based data fetching.
- Implemented search, categories, details screens, and state management.

### Car Rental System (Java)

- Desktop app featuring car booking, admin panel, and SQL-based data storage.
- Added login system, validation, and reservation history.

### Flower App (Flutter)

- Built a complete shopping app with cart, favourites, and product filtering.
- Applied clean UI and responsive design principles.

### News App (Flutter)

- Fetched live global news using REST API with categorised sections.
- Implemented caching and smooth navigation for better user experience.

### Counter Basketball (Flutter)

- Simple score-tracking app for two teams with clean UI.

### Toku App (Flutter)

- A Japanese vocabulary learning app using local data storage.
- Included categories, audio pronunciations, and interactive UI.

### Chat App (Flutter + Firebase)

- Implemented real-time chatting using Firestore and Firebase Authentication.
- Added user login, message timestamps, and chat rooms.

### Weather App (Flutter)

- Displayed weather data from OpenWeatherMap API.
- Designed dynamic UI based on temperature and weather conditions.

## Skills

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**Technical Skills:** Flutter, Dart, SQL, Firebase, Git, REST APIs, JSON, Web Programming, OOP

**Soft Skills:** Communication, Teamwork, Problem Solving, Time Management, Adaptability

## Certifications

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| ◦ Flutter & Dart (Cerativa Menof)     | ◦ Introduction to Data Science (CISCO)       |
| ◦ Flutter & Dart (Easy Learn Academy) | ◦ Introduction to Internet of Things (CISCO) |
| ◦ Flutter (Sprints)                   | ◦ Introduction to Cyber Security (CISCO)     |
| ◦ Flutter & Dart (ITI)                | ◦ AI (Huawei ICT Academy)                    |