

# Ali Abdelnaser

## Flutter Developer

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### SUMMARY

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I am a second-year Computer and Communications Engineering student at Misr Academy for Engineering and Technology, Mansoura. Passionate about both software and hardware, with a stronger focus on software development, especially mobile applications using Flutter. I enjoy learning new technologies, building real-world projects, and collaborating in team environments. Currently seeking opportunities to apply my skills, gain practical experience, and contribute to impactful projects.

### EDUCATION

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**Undergraduate Student – Communications and Computer Engineering**  
**Misr Academy for Engineering and Technology (MET), Mansoura**  
**Second Year – Expected Graduation: 2028**

### PERSONAL SKILLS

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- **Problem-Solving:** Able to analyze challenges and design practical solutions.
- **Adaptability:** Quick learner who can easily adjust to new tools and environments.
- **Teamwork & Collaboration:** Experienced in working with peers on projects and student activities.
- **Time Management:** Able to organize tasks and meet deadlines effectively.
- **Creativity:** Always exploring innovative ways to improve ideas and projects.
- **Communication:** Clear and confident in sharing ideas and working with others.

### PROJECTS

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#### Five2Ten - [AppStore](#)

- AI Nutrition Scan: Integrated Google Gemini API and ML Kit OCR for automated nutrition analysis from product labels.
- Gamified Engagement: Built a Daily Tasks Game system with animated UI components to boost user retention.
- Robust Architecture: Implemented Clean Architecture and BLoC/Cubit for scalable and maintainable state management.
- Secure Integration: Integrated Firebase Auth, Firestore, and Cloud Messaging with App Check for high security.
- Performance & Caching: Used Hive for ultra-fast local data storage and offline capabilities.
- App Store Deployment: Experienced in full lifecycle management, including uploading and updating apps on the Google Play Store.

#### QR Attendance App

- Developed a mobile app using Flutter and Firebase Firestore for managing event attendance.
- Key features: QR code scanning, duplicate scan prevention, attendance confirmation, team-based dashboards, and admin access for participant management.

#### E-Commerce App

- Built a shopping app with search functionality and product filters (category, price, rating).
- Designed a modern UI with smooth animations, product details, bottom sheets, and custom dialogs.

#### Car Rental App

- Designed an app with login system, PageView navigation, and animated UI components.
- Focused on creating a user-friendly interface and modern design.

## Smart Mail

- a professional email management system using Flutter and Firebase, successfully migrating organizational workflows from manual Google Sheets/Apps Script to a centralized mobile platform.
- **Architected a custom SMTP-based delivery engine** with support for multiple providers (Gmail, Custom Hosts), enabling secure, authenticated bulk communication directly from the app.
- **Integrated Firebase Cloud Functions** for campaign scheduling and automated processing, ensuring reliable delivery tracking and real-time Firestore logging.
- **Leveraged Clean Architecture and BLoC** to build a highly scalable, feature-based system with strict separation of concerns and optimized performance.

## MIE APP

- Developed a Flutter-based attendance management system using Dart, Riverpod, Supabase, Hive, and mobile\_scanner to streamline participant check-ins through QR code scanning.
- **Implemented** authentication, volunteer approval workflows, admin user management, participant CRUD operations, and real-time attendance tracking using **Supabase Auth and Database**.
- **Built** an offline-first check-in flow with **Hive, connectivity\_plus, and device\_info\_plus**, enabling local attendance storage and automatic synchronization when internet connectivity is restored.

## SKILLS

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- **Languages & Frameworks:** Dart, Flutter
- **State Management:** Bloc, Cubit, Provider
- **Backend & Databases:** **Firestore** (Firestore, Authentication, Storage), **Supabase**, **AppWrite**
- **API Integration:** REST APIs, Postman testing, JSON handling
- **UI/UX Development:** Responsive layouts, Material Design, Animations (Lottie, custom transitions), Modern dashboards
- **Data Handling:** Google Sheets integration, Real-time updates with Firebase/Supabase
- **App Features:** QR code scanning, Authentication systems (login/register), Search & Filters, Notifications, Charts & Statistics
- **Tools & Workflow:** Git/GitHub, VS Code, Android Studio, Debugging & Performance optimization

## COURSES & CERTIFICATES

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- Flutter Development – Complete Basics Course by Tharwat Samy
- Flutter Advanced Topics (Self-learning & Projects) from Amr Ahmed courses
- Flutter & Firebase Practical Tutorials by Wael Abou Hamza

## RELEVANT COURSEWORK & ACADEMIC SKILLS

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- PROGRAMMING FUNDAMENTALS (C, C++)
- OBJECT-ORIENTED PROGRAMMING (C#)
- WEB DEVELOPMENT (BASIC EXPERIENCE IN HTML, CSS, JS)
- PROBLEM SOLVING & ALGORITHMS (COMPETITIVE PROGRAMMING & CODING CHALLENGES)
- COMPUTER NETWORKS & SYSTEMS (INTRODUCTORY KNOWLEDGE)

## VOLUNTEERING & ACTIVITIES

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### **IEEE MET Student Branch – Webmaster & Technical Member (HR Team)**

- Started as a technical member in the HR team, then promoted to Webmaster of the whole branch.
- Responsible for managing the branch's online presence, supporting technical operations, and providing digital solutions to enhance community engagement.

### **Google Developer Student Clubs (GDSC) – Technical Team Member**

- Contributed to the technical team by working on projects, supporting workshops, and helping peers learn mobile development and problem-solving skills.

### **ECPC Team – HR Head**

- Led the HR efforts of the ECPC (Egyptian Collegiate Programming Contest) team.
- Coordinated with participants, supported them in learning algorithms and problem solving, and ensured smooth participation in contests.

### **MIE (Made in Egypt) Graduation Project Competition – Registration Team Member**

- Participated in one of the largest graduation project competitions in Egypt as part of the technical team.
- Proposed and implemented technical solutions to save time and effort for the team, improving project efficiency and outcomes.

### **IEEE Power Africa Conference (PAC) 2025 – Cairo Organizing Committee Member – Registration & ISV Teams**

- Contributed to organizing one of the largest IEEE energy conferences in Africa.
- Collaborated with international, cross-disciplinary teams throughout the planning and execution phases.
- Assisted the Registration Team in managing attendee check-in and ensuring smooth on-site operations.
- Supported the ISV Team with task coordination, scheduling, and communication.
- Gained strong experience in teamwork, event coordination, and professional communication.