

Mohamed M. El Esh

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Web: [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

About Me

Junior Flutter Developer skilled in building responsive, high-performance apps using clean architecture, SOLID principles, and design patterns. Experienced in state management (Bloc, Provider, Riverpod), secure authentication, RESTful API integration (Dio), dependency injection, and bilingual UIs.

Education

Faculty of Computers and Artificial Intelligence
Damietta University, Damietta, Egypt
Department: Computer Science

2021 - 2025

Work Experience

Sprints x Microsoft — Summer Camp (Remote) Mobile Development Trainee

Jul 2025 – Sep 2025

AWS Machine Learning Engineer Program (177-hour program)

- **Core Widgets:** Practiced stateless/stateful widgets, layouts, gestures, and responsive design.
- **State Management:** Used Provider to handle app state and ensure scalable architecture.
- **UI/UX:** Managed model lifecycle with MLflow and Hugging Face.
- **Localization:** Implemented Arabic/English support using intl and .arb files.
- **Final Project:** Developed a Shopping App with authentication, product catalog, cart, and animations.

Digital Egypt Pioneers Initiative - DEPI - Egypt Trainee

Apr 2024 – Oct 2024

AWS Machine Learning Engineer Program (177-hour program)

- **Cloud Computing:** Established a solid foundation in AWS services and cloud architecture.
- **Machine Learning Foundations:** Trained and deployed machine learning models using Python and AWS.
- **MLOps Tools:** Managed model lifecycle with MLflow and Hugging Face.
- **Natural Language Processing (NLP):** Developed NLP models for text classification and sentiment analysis.
- **Prompt Engineering:** Optimized prompts for language models, enhancing task completion rates.

Samsung Innovation Campus - Cairo, Egypt Intern

Jun 2023 – Sep 2023

Coding and Programming Course (120-hour program)

- **Programming Fundamentals:** Proficient in Python, covering essential programming concepts.
- **Object-Oriented Programming (OOP):** Applied OOP principles for modular software design.
- **Algorithm Implementation:** Designed and implemented efficient algorithms.
- **Data Manipulation:** Analyzed and manipulated data using Pandas and NumPy.
- **GUI Development:** Built interactive desktop applications with Tkinter.

Key Projects

• AI Baker Air Conditioning Mobile App (Flutter)

Developed a responsive e-commerce and service app with Arabic UI, JWT authentication, and RESTful API integration using Dio. Implemented product catalog, cart, payment processing, and service scheduling with Lottie animations for enhanced UX.

• QRoll Attendance Mobile App (Flutter)

Built a role-based attendance app featuring QR code scanning, JWT authentication, and real-time messaging. Used Riverpod for state management, encrypted local storage, and integrated REST APIs within a responsive, clean UI.

• Flutter Shopping App (Flutter)

Created a shopping app with validated Sign-Up/Sign-In forms, animated navigation, PageView/GridView product display, and add-to-cart SnackBars. Implemented full Arabic localization using intl and managed state with Provider.

• WhatsApp-Style Messaging UI (Flutter)

Designed a pixel-perfect WhatsApp-like UI (Home, Chat, Stories) with light/dark themes, adaptive layouts, and interactive micro-animations (chat open, send feedback, story transitions). Used Provider for state management.

Technical Skills and Knowledge

- Programming languages: C#, Python, Dart
- Back-End: learning ASP.NET Core, C#
- Version Control: Git, GitHub
- Task management: Jira
- Database Management: MySQL, Firebase, JSON
- API Development: RESTful APIs, Dio
- Mobile Development: Flutter
- Cloud Technologies: AWS (EC2, S3, Lambda)