Mahmoud Yosri

Flutter Developer

Alexandria, Egypt • +201550992106 • mahmooudyosri@gmail.com

LINKEDIN: linkedin.com/in/mahmoud-yosri-b30a89212

GITHUB: github.com/mahmoudyosrimahmoud13

PROFILE

Detail-oriented Software Engineer specializing in cross-platform **Mobile Application Development** with Flutter and Machine Learning integration. Experienced in architecting applications using **Clean Architecture**, deploying on-device AI models, and implementing **Asynchronous Programming**. Committed to **Quality Assurance** through **TDD** to deliver seamless user experiences.

EDUCATION

Bachelor of Computer Science Sep 2020 – Jun 2024

Kafrelshikh University, Faculty of Computer Science and Information Technology *GPA: 2.9/4.0*

Relevant Coursework: Data Structures, Algorithms, Database Systems, Software Engineering, OOP

PROJECTS

CodeNote (Developer Productivity Suite) | Project Link 2024 – 2026

- Developed a productivity suite featuring a block-based editor with **Asynchronous** syntax highlighting for 20+ languages.
- Implemented **Real-time Chat** with cloud sync via Firestore and dual-notification systems (**FCM** and Local).
- Integrated **Google ML Kit (OCR)** and **TFLite** for on-device AI features, ensuring data privacy and performance.
- Optimized performance using **Hive** for NoSQL storage and **GetIt** for dependency injection in a **Clean Architecture** setup.

Flutter Clean Architecture TDD Boilerplate | Project Link 2026

- Engineered a high-stability application template utilizing **Test-Driven Development (TDD)** and Domain-Driven Design (DDD).
- Focused on a multi-layered Clean Architecture pattern to ensure maximum scalability and maintainability for enterprise-grade code.

Health Hub (Medical Integration Platform) | Project Link 2024

- Developed a medical platform frontend connecting patients, doctors, and pharmacists; integrated **RESTful APIs** using **Dio**.
- Applied **Cubit** for predictable state management and **SOLID principles** to ensure a decoupled codebase.

Smart Notes (AI Object Detection) | Project Link 2023 – 2024

- Deployed an **SSD MobileNet V2** model via TensorFlow Lite to enable real-time object detection within the application camera feed.
- Architected local data persistence using **SQLite** and managed state with **Riverpod**.

TECHNICAL SKILLS

- **Languages:** Dart, Python, C++, C#, SQL, JavaScript
- **Frontend/Mobile: Flutter**, Clean Architecture, TDD, **Asynchronous Programming**, BLoC, Riverpod, Dio, FCM
- **AI / ML:** TensorFlow, PyTorch, **TFLite (SSD MobileNet V2)**, Scikit-Learn, Pandas, NumPy, Matplotlib
- **Tools:** Git, GitHub, Firebase (Firestore, Auth), FastAPI, Hive, SQLite, Postman

CERTIFICATIONS

- **Python for Data Analysis** | NTI Verification 2024
- **Machine Learning Specialization** | Coursera Verification 2024
- **Huawei HCIA-AI Learning Course** | Huawei 2023