

# MOHMAED ABUBAKER

## Software Engineer

🏠 DUBAI, UAE

📞 +(971)522929436

✉️ [mohammedaliedriis@gmail.com](mailto:mohammedaliedriis@gmail.com)

[Github](#),

[Linkedin](#),

[Portfolio](#)

### PROFESSIONAL SUMMARY

Full-stack Software Engineer with over 3+ years of experience in Python, Flutter, SQL, AI/ML, JS, and IoT. Proven track record in designing scalable architectures and developing secure APIs for healthcare, robotics, and automation projects.

### EXPERIENCE

#### FULL STACK ENGINEER

Dec 2024 –

TECWAY, DUBAI, UAE

Present

- Led end-to-end development and optimization of 4+ cross-platform applications using Flutter, PyQt6, and JavaScript, improving product engagement by 25% through enhanced UI/UX and optimized performance.
- Architected and implemented secure backend APIs and ETL automation pipelines for large-scale data cleaning, transformation, and business logic processing, reducing manual processing time by 40%.
- Rewrote inefficient database queries and implemented caching optimizations, reducing key operation latency from several seconds to under 100 ms, significantly improving user experience and engagement.
- Incorporated advanced machine learning models via Google Gemini APIs and custom training pipelines, enabling real-time personalization and increasing user session duration by 35%.

#### SOFTWARE ENGINEER

Nov 2024 –

CARETTA ROBOTICS, FAMAGUSTA, CYPRUS

Apr 2025

- Improved object detection precision by 12% through MobileNet model retraining.
- Reduced ROV command latency 15% via real-time control system optimization.
- Consolidated sensor streams from 5+ sources for accurate 3D environmental mapping.

#### SOFTWARE ENGINEER INTERN

Jun 2024 –

CARETTA ROBOTICS, FAMAGUSTA, CYPRUS

Oct 2024

- Optimized computer vision pipelines for faster object detection and classification.
- Processed 26,000+ sensor entries, increasing ML model accuracy by 20%.
- Enhanced 3D SLAM system with multi-sensor fusion for better navigation.

#### SOFTWARE DEVELOPER FREELANCER

Nov 2022 –

SELF-EMPLOYED, KHARTOUM, SUDAN

Jun 2024

- Led a team of 4 to deliver mobile & automation solutions 25% faster than projected.
- Oversaw the full software lifecycle, coordinating across design, data, and engineering teams to deliver scalable, high-quality products on schedule.
- Developed Flutter apps with Firebase, improving performance by 20%

### Projects

#### Docline

May 2025 –

Tech Stack: Dart, Flutter, Supabase, FCM, APN, Google Analytics.

Oct 2025

- Engineered a responsive cross-platform telehealth mobile application to connect doctors in the Gulf region with patients in Sudan targeting to improve the health sector by 20%.
- Crafted a modular system to manage 100+ weekly appointments, enable real-time chat and video calls, and support a custom EHR system compliant with industry standards, resulting in a 30% increase in operational efficiency.

#### MD ASSISTANT

Apr 2025 –

Tech Stack: Python, PyQt6, Pandas.

May 2025

- Architected a modular ETL pipeline that processed over 5,000+ Excel/ODS records, automating data transformation and normalization with 98% accuracy using intelligent record reconciliation logic.
- Prepared the system for API integration with hospital databases, reducing future migration time by 40% and enabling scalable transition to a cloud-based architecture.

### SKILLS

#### Programming languages:

Dart, JavaScript, TS, Python, SQL.

#### Frameworks & Tools:

Flutter, FastAPI, React, NextJS, Node.js, PyQt6, Tailwind CSS.

#### Backend & Cloud:

AWS, Supabase, Firebase, PostgreSQL, Docker, RESTful APIs, CI/CD (GitHub Actions).

#### AI/ML & Data:

Pandas, NumPy, Scikit-learn, TensorFlow, YOLOv5, OpenCV.

#### Other Skills:

Microservices, GitHub, Agile, Scrum, API Security, ETL Pipelines, Real-Time Systems.

#### Languages:

Arabic: Native.

English: Professional.

### EDUCATION

Eastern Mediterranean

University, Famagusta, North Cyprus (EMU)

B.Sc in Electrical and Electronic Engineering (Honours Student)  
GPA: 3.06/4.00

### AWARDS AND

#### CERTIFICATIONS:

##### 1. OpenEDG Python Institute:

Programming with Python  
Professional Certificate [Link](#)

##### 2. IEEEEXTREME 18.0

**competitor** ranked 2nd in the country and 597th in the region, [IEEEExtreme](#), IEEE.

##### 3. Best Graduation Design

Project of the Fall 2024-2025 semester, Electrical and Electronic Engineering, EMU.

##### 4. Flutter Development Course,

Google Developer Student Club, University of Khartoum Branch, Google.