# Anwar Omar

Lebanon , Tripoli · · anwaromar727@gmail.com · linkedin · github · kaggle

## COMPUTER & COMMUNICATION ENGINEER

Computer and Communication Engineer, Master's graduate in IoT and Smart Systems from ULFG1, with a focus on software development, system design, cybersecurity, and distributed applications.

## KEY COMPETENCIES

- **Programming Languages :** Java, C++ (Qt), C#, C, Python, Matlab, Assembly
- **Web Development:** HTML, CSS, JS, FastAPI, Flask, Laravel (PHP)
- **Database Management:** SQL, PostgreSQL, MySQL, Redis
- **Cybersecurity:** Web App Sec , OWASP Top 10 , Burp Suite
- **Machine Learning :** ML Algorithms, DL Algorithms, XAI, NLP, LLM, Computer Vision
- **AI Agents :** Langchain, CrewAi , RAG
- **Tools:** AWS, Linux, Kali-Linux, Docker, Kubernetes, Hadoop, Spark, Git, Vapi

## PROJECTS

- **Explainable Sensor Placement in WIoT (Final Year Project, Institut Polytechnique de Paris)**
  - **Built an end-to-end** ML and XAI system to optimize IoT sensor placement.
  - **Created a Python** simulation app and automated dataset generation.
  - **Developed a FastAPI backend and web UI** for prediction, fitness evaluation, and XAI visualizations.
- **FoxVoid Academy (Cybersecurity & Software Training Platform)**
  - **Worked in a team** on a full-stack education platform using React, Laravel, MySQL.
  - **Developed backend features and APIs**, and handled database integration.
  - **Designed and delivered technical courses** in Java, Python, Networking, Linux, Databases.
- **E-Learning Platform:** Full-stack application (HTML/CSS/JS, FastAPI, SQL) enabling instructors to build courses/lessons/quizzes and students to enroll and complete them.
- **Java Supervisor-Student System:** Developed a supervisor-student management system using RMI for efficient interactions.
- **C++ Qt Banking Application :** Developing a **desktop banking system** using C++ and Qt framework. Implementing account management, transactions, and basic banking operations with a GUI interface.
- **Additional Projects :** Self-Balancing Robot, ECG signal Filtering, Smart Traffic Management (Iot), Implement PRINCE Cipher algorithm, Multiple ML Classification Projects, Implement Transformers.

## PROFESSIONAL EXPERIENCE

**UbilityAI**
**Software Engineer Intern** **June 2025 - November 2025**

- **Built a no-code platform** for creating CrewAI-based systems with Flask, PostgreSQL, and WebSockets.
- **Developed integrations** with vector stores (Weaviate, Pinecone, etc.) , created multiple tools and automated CrewAI code generation.
- **Enhanced CrewAI** to support real-time user interactions and streaming conversations with our UI.

**Cognios Tech**
**AI Engineer Intern** **September 2024 - November 2024**

- **Developed an AI voice assistant for FMCG** using Twilio, VAPI, FastAPI, and Airtable.
- **Developed chatbots using LangChain** enhancing generative AI and autonomous systems expertise.

## EDUCATION

**Computer & Communication Engineering Diploma**
Lebanese University - Faculty of Engineering
2020-2025

**IOT and Smart Systems Master**
Lebanese University - Faculty of Engineering
2025

## LANGUAGES

- **English :** C1
- **French :** B1
- **Arabic :** Native

## CERTIFICATION

- Intro to AWS (DataCamp)
- AWS Cloud Technology and Services (DataCamp)