

Sara Amiri

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SUMMARY

Computer Science student with hands-on experience in AI-driven software development, multimodal AI systems, and backend engineering using Python and modern AI APIs. Developed an emotion-aware multilingual AI robot integrating conversational AI, computer vision, speech processing, and real-time cloud-hosted services. Passionate about building AI-native applications and continuously expanding expertise in LLMs, agentic AI, and intelligent user-centered systems.

EDUCATION

Bachelor of Science in Computer Science

Global University

Expected Graduation: July 2026

Relevant Coursework:

Enterprise Database Systems, Software Engineering, Data Structures & Algorithms, Introduction to Data Science

PROJECTS

RoboSense — Emotion-Aware Multilingual AI Robot

Senior Project | Python, OpenAI API, Hume AI, OpenCV, MediaPipe, Supabase, Railway, Raspberry Pi

[RoboSense GitHub Repository](#)

- Developed an emotion-aware multilingual AI robot capable of real-time voice interaction in Arabic and English.
- Built a multimodal AI pipeline combining facial expressions, voice-tone analysis, and conversational context to classify user emotions.
- Integrated OpenAI APIs for speech-to-text, LLM response generation, text-to-speech, prompt engineering, conversational memory, and tool-calling workflows.
- Implemented personalized user interaction using facial recognition with the InsightFace ArcFace buffalo_s model and approved-user authentication.
- Engineered backend infrastructure using Supabase and Railway to manage user data, cloud-hosted AI services, and real-time processing.
- Programmed robotic interaction and motion control on Raspberry Pi hardware using cameras, microphones, speakers, obstacle-avoidance sensors, and servo motors.

SKILLS

- **Programming Languages:** Python, Java, JavaScript
- **AI & Machine Learning:** OpenAI API, Hume AI, Prompt Engineering, Conversational AI, Retrieval-Augmented Generation (RAG), Tool Calling, Speech-to-Text (STT), Text-to-Speech (TTS), Emotion Recognition, Computer Vision
- **Frameworks & Libraries:** OpenCV, MediaPipe, InsightFace (ArcFace buffalo_s)
- **Backend & Cloud:** REST APIs, Supabase, Railway
- **Tools & Platforms:** Git/GitHub, FlutterFlow

LANGUAGES

- **Arabic:** Native
- **English:** Fluent