

# Aya Al Shahal

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Full Stack Developer specializing in frontend frameworks Angular, React, and Flutter, with strong backend expertise in Node.js and NestJS. Dedicated to delivering scalable, high-performance, and user-focused applications. Experienced in Machine Learning, Generative AI, and proficient in working with Large Language Models (LLMs) to drive intelligent solutions.

## Experience

**AI Trainee at [ZAKA](#)**, Lebanon, Remote May 2025 – Oct 2025

As part of a 20-week AI training program, I completed hands-on capstone projects applying ML and generative AI to real-world problems, focusing on full-cycle implementation and deployment.

- + **AI Educational Video Creator**: Developed a pipeline that transforms text and images into educational videos using LLMs (LLaMA), SadTalker, Edge TTS, and Flask/DeepFace.
- + **[Mug and Spoon Detector](#)**: Built and deployed a full-stack object detection app with YOLOv5 and Flask, handling dataset preparation, model training, and live inference.

**Frontend Developer at [Interphase](#)**, Tripoli, Lebanon Feb 2025 – Aug 2025

Worked on the [Populus automation platform](#), delivering high-quality, scalable frontend solutions using Angular:

- + Built a dynamic **Website Builder** for Populus, enabling users to design customizable, responsive layouts.
- + Developed a **Smart Table** with filtering, drag-and-drop, and column controls for complex data.
- + Integrated an AI-powered chat assistant using Cohere, to deliver intelligent, real-time user support.
- + Resolved critical bugs, boosting performance and platform stability.
- + Collaborated in **Agile sprints** with designers and backend engineers to ship features on time.

**Full Stack Developer at [Inventus](#)**, Tripoli, Lebanon July 2023 – Dec 2024

- + Designed and developed responsive dashboards and web applications using React, Next.js, and NestJS.
- + Built and maintained cross-platform mobile apps with Flutter and Node.js backends.
- + Led the creation of admin panels and data-driven interfaces to support internal operations and analytics.
- + Utilized Git and CI/CD practices for version control and deployment.

**Mentee at [Codi](#)**, Tripoli, Lebanon Nov 2022 – May 2023

Completed a 6-month full stack bootcamp focused on practical, project-based learning.

- + Developed multiple **MERN stack** web apps with a 4-member team using **Git** and **GitHub**.

## Personal Technical Projects

**AI Educational Video Creator**: Platform for generating short educational videos using AI.

**[Mug and Spoon Detector](#)**: Developed a YOLOv5 Flask app for live object detection.

**[Surplus Savior Website](#)**: Designed and developed a food waste reduction website using the MERN stack with features like a contact form and admin dashboard.

## Education

**Lebanese University/ Faculty of science**, Tripoli, Lebanon 2021 , 2022  
Bachelor Degree in chemistry

## Skills

**Technical Skills**: Frontend: Angular, React, Bootstrap | Backend: Node.js, Express, NestJS, Flask | Mobile: Flutter | AI/ML: Python, TensorFlow, PyTorch, Scikit-learn, Hugging Face, LLaMA, SadTalker, DeepFace, TTS | Others: Git, CI/CD (GitHub Actions), Agile

**Soft Skills**: Communication, Self motivation, Self learning, Teamwork, Analytical thinking, Problem solving

**Languages**: Arabic(native); English(Advanced)