

# Mohamed Elsayed.

*Full-Stack Developer • DevOps Engineer • Self-Hosting Fan*

Based in Sharjah, UAE • mhd12@devlix.org • mhd12.dev

Full-Stack Developer and DevOps Engineer focused on web applications, APIs, databases, and containerized deployments. Experience with React, Next.js, Nest.js, FastAPI, PostgreSQL, Prisma, and Docker. Build, deploy, and maintain self-hosted infrastructure and production-ready platforms. Strong focus on system design, automation, performance, and secure authentication. Active self-hosting practitioner. Portfolio and project documentation available at mhd12.dev.

## AREA OF EXPERTISE

### UI / WEB

React.js  
Next.js  
Tailwind CSS  
Framer Motion

### BACKEND / DATA

Nest.js  
FastAPI  
PostgreSQL  
Prisma

### DEVOPS / INFRA

Docker  
Linux • NixOS  
Proxmox  
Cloudflare R2 • Turnstile

## KEY HIGHLIGHTS

- Designed and deployed full-stack platforms using Next.js, React, Nest.js, FastAPI, and PostgreSQL.
- Implemented authentication, role-based admin dashboards, media pipelines, and rating systems.
- Containerized applications with Docker and deployed on self-hosted Linux infrastructure.
- Integrated cloud and AI APIs including Cloudflare R2, Vertex API, and Gemini API.
- Built CI-style workflows and reproducible environments with NixOS and Linux servers.

## PROFESSIONAL EXPERIENCE

### Full Stack Developer Intern

Since Jan 2026

### Organic Vision Media

Built and maintained full-stack features across React/Next.js frontends and API backends. Worked on database models, authentication, and production deployments.

## Independent

Delivered end-to-end systems: system design, backend APIs, frontend UI, database schema, Docker builds, and server deployment.

## EDUCATION

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### Student (Grade 8)

Since Grade 7

#### Al Noor International School

Sharjah, UAE

## PROJECTS

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### Noor-Ibtikar Exhibition 2026 Platform

#### Full-stack exhibition platform with public gallery + secure admin dashboard

A full-stack exhibition platform built for Noor International School to showcase student innovation projects during the 2026 Noor-Ibtikar Exhibition. Includes dynamic public gallery with advanced search, project detail pages, video presentations, protected rating system, and secure admin dashboard for managing projects, categories, media uploads, and feedback. Optimized for performance, mobile responsiveness, RTL support, and fully containerized.

Tech: Next.js • TypeScript • TailwindCSS • Prisma • SQLite • Cloudflare R2 • Auth.js/NextAuth • Framer Motion • Docker

### Smart Sample Viewer

#### AI-powered tool that breaks down samples into simple explanations

An AI-assisted viewer that converts complex samples into clear, structured explanations with a focus on usability and fast iteration.

Tech: React • Tailwind • FastAPI • Vertex API • Docker • JWT Auth

### GreenSteps

#### Voice-interactive AI sustainability coach

A voice-interactive AI sustainability coach that guides eco-friendly choices and generates personalized recycling ideas. Includes secure auth, bot protection, media storage, and containerized deployment.

Tech: FastAPI • React • Tailwind • PostgreSQL • Gemini API • Framer Motion • JWT Auth • Cloudflare R2 Buckets • Turnstile • Docker

## MY EXPERTISE

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### LANGUAGES

TypeScript • Python • SQL • JavaScript

### FRONTEND & MOBILE

React • Next.js • Tailwind CSS • Redux • Expo

### BACKEND & DB

Nest.js • PostgreSQL • Prisma • FastAPI • Flask • NextAuth

## DEVOPS & CLOUD

Docker • Git • Linux • NixOS • AWS • Proxmox • Cloudflare R2 • Turnstile • Vertex API • OpenAI API

## SYSTEM DESIGN

API design, database schema, container architecture, deployment pipelines, reverse proxy, and self-hosted infrastructure.

## CONTACT

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Available for internships, freelance, and technical collaborations.

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**Mohamed Elsayed**