

Mohamed Seoudy

Full-Stack Engineer — Interactive Systems & AI Products

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Professional Summary

Engineer focused on building interactive systems and AI-driven products where frontend architecture is a core part of the system design. Experienced in developing data-intensive applications, visual interfaces, and real-time systems with a strong emphasis on performance, usability, and clean architecture. Bridges frontend engineering with backend logic and AI integration to build production-ready tools, from visual editors and dashboards to intelligent content generation systems.

Core Skills

- Frontend: React, TypeScript, JavaScript (ES6+), Next.js, HTML, CSS, Tailwind
- Systems & Architecture: State management (Zustand, Jotai), component systems, scalable UI architecture
- Data & Graphics: D3.js, Canvas API, WebGL (basic), data visualization systems
- Backend & Integration: Node.js, Express, REST APIs, WebSockets, GraphQL (basic)
- AI Integration: LLM APIs (OpenRouter, Gemini, Grok), prompt-driven systems
- Tooling: Git, Storybook, Jest

Experience

Independent Full-Stack Engineer — Jan 2022 – Dec 2025

- Designed and built interactive, production-grade web applications including visual editors, dashboards, and data-driven systems.
- Developed scalable frontend architectures for complex UIs with heavy state management and dynamic layouts.
- Integrated backend services and real-time data flows using REST APIs and WebSockets.
- Built systems combining frontend logic with AI-generated content and automated workflows.
- Focused on performance optimization for rendering-heavy and data-intensive interfaces.

Selected Projects

Modra — AI-Powered Presentation & Visual Storytelling Platform

Built a system that transforms ideas and datasets into structured presentations, charts, and visual outputs using LLM APIs (OpenRouter, Gemini, Grok). Designed a flexible template and layout system and AI-driven workflows.

Basira — Interactive Graph-Based Educational System

Developed a graph-based system for visualizing historical and relational data using custom Canvas rendering and tree navigation.

Deskby — Modular Dashboard Platform

Built a desktop-first dashboard system with resizable widgets and modular UI architecture.

Cargo Lab — Interactive Data Visualization Playground

Created experimental data visualization tools using D3.js and Canvas.

Education

Bachelor's Degree in Tourism & Hotels Management — Cairo Higher Institute (2018 – 2022)

Languages

Arabic — Native · English — Professional Working Proficiency