

Abdulrhman Eltahir

SOFTWARE ARCHITECT · TECHNICAL LEAD

Sudanese · based in Saudi Arabia

عبدالرحمن الطاهر



I build systems that generate systems.

Technical lead and architect at a software studio, shipping production systems across three technology ecosystems — plus the libraries, agents, and tooling underneath them.

WHAT I DO BEST

Backend & systems

The engine room — reliable production back-ends across three technology ecosystems, plus the shared packages that keep large, multi-part systems consistent as they grow.

Developer experience & platform

Tooling and automation that manufacture a whole configured environment reproducibly — the kind of leverage a team feels every day after.

AI & agents

AI woven into delivery, not bolted on — agent tooling that builds and checks software, cutting delivery time substantially.

Cloud & infrastructure

Reproducible, self-hosted infrastructure — Docker, Linux, Cloudflare — provisioned as code, not clicked together by hand.

Library & API design

My signature — drop-in libraries with clean APIs that add capability to a product without taking over its architecture, built across .NET and Laravel.

Architecture & leadership

End-to-end ownership — I architect systems and lead delivery across a broad portfolio: governance, licensing, logistics, healthcare — not one product in one vertical.

Frontend & product UI

Typed, content-driven interfaces for web and mobile — built with the same restraint and structure as the systems behind them.

Mobile & desktop

Cross-platform apps from one codebase — React Native and Expo on mobile, Tauri on the desktop — sharing types and logic with the web.

BY THE NUMBERS

6+

years shipping production software

3

core ecosystems — Laravel · TypeScript · .NET

12+

open-source libraries & tools

Technical lead at a software studio

TOOLBOX

LANGUAGES

TypeScript · PHP · C# · Python · SQL · Bash

BACKEND

Laravel · .NET / ASP.NET · FastAPI · Node · Filament

FRONTEND

React · Next.js · Astro · Tailwind · shadcn/ui · Module Federation

MOBILE & DESKTOP

React Native · Expo · Tauri · SQLite · Local-first / offline-first

DATA

PostgreSQL · MySQL · SQLite / Turso · Redis · EF Core · Drizzle · Eloquent

AI & AGENTS

OpenAI · Anthropic · Agent orchestration · PydanticAI · Vercel AI SDK

INFRASTRUCTURE & DX

Docker · Linux · Cloudflare · Hetzner · Vercel · Git · Turborepo / pnpm · Biome

SELECTED WORK

Workstation-bootstrap engine

github.com/adams100111

An engine that turns a bare machine into a fully-configured developer workstation, unattended, in minutes — the clearest single expression of systems that generate systems.

Composable .NET library ecosystem

github.com/adams100111

A cohesive family of drop-in packages plus a generator that scaffolds production-ready projects — adding capability to a codebase without taking over its architecture.

AI agent orchestration & QA tooling

github.com/adams100111

Multi-agent tooling that implements and independently verifies software — parallel delivery with quality gates, distilled from real work that cut delivery time substantially.

Personalized Python-mastery platform

github.com/adams100111

A learning platform that teaches Python to experienced builders — in-browser execution (Pyodide), AI-narrated lessons, and a constitution-first curriculum. Pedagogy encoded as software, AI woven through.

Enterprise (anonymized): Technology-governance platform · Software-licensing infrastructure · Distributed-systems packages (Laravel) · Customer-support SaaS — named on request.

APPROACH

I optimize for leverage — the artifact that produces other artifacts. Type safety and long-term maintainability are the foundation; AI is woven through, not bolted on.

- Technical lead of a software studio — the delivery, and the tooling beneath it.
- Carry library-design taste across three ecosystems; earn abstractions from real, repeated delivery.
- Build culturally-grounded products for MENA and Sudan, alongside open source.