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Full-stack engineer who ships production systems end-to-end — in-house ERPs, high-traffic event platforms, and hardware/payment integrations. I own problems from data model to deployment, dig root causes out of production issues, and improve systems before anyone asks me to. Currently leading a small team building factory software from the ground up.

EXPERIENCE

Tech Lead — Solid MetalsMay 2025 — Present

In-house software for a steel-construction manufacturer · Cairo

- Lead a 3-engineer team building a custom in-house ERP from scratch — HR, operations, finance, work-order tracking, and supplier management as connected modules.
- Own architecture and delivery across the stack: relational data modeling in PostgreSQL, REST APIs on NestJS, and Next.js front ends, containerized with Docker and shipped through CI/CD.
- Replaced fragmented, manual factory processes with a single system that tracks work orders across production and cuts cross-department coordination overhead.

Software Engineer — BME GlobalJun 2024 — Jul 2025

Experiential agency building brand activations and events technology · Cairo

- Built SSGL, a tournament-management platform serving thousands of users, with registration, event game management, and a real-time live leaderboard.
- Designed an exhibitor-management system handling applications, exhibitor and staff data, and organizer workflows end-to-end, plus an integrated ticketing system.
- Owned these products from schema to UI, keeping them reliable under event-day traffic spikes.

Front-End Developer — Golden Eagle Tech & Ataki Studio2022 — 2024

Game-studio and product web platforms · Bahrain / Cairo

- Built interactive, high-polish web front ends for a gaming studio and an entertainment-discovery product, sharpening the JavaScript and UI foundations I now lead with.

SELECTED PROJECTS

- Multi-Branch HR Platform — Self-serve HR system for a multi-branch organization; NestJS + Next.js with Hikvision device integration for attendance.
- Consulting Reservation System — Booking platform for a consulting firm with payment-gateway integration and automated confirmations.
- Event Gamification Engine — Real-time activity-gamification and live-leaderboard system for large in-person events.

FOCUS

Backend APIs & data modeling
System & hardware integration
Production debugging & root-cause
Team leadership & delivery

TECH STACK

TypeScript · Node.js · NestJS · Express ·
PostgreSQL · MongoDB · Redis · REST APIs ·
Next.js · React · Vue / Nuxt · Docker · CI/CD ·
Firebase · Payment & device integrations

EDUCATION

Helwan University
B.Sc. Business Information Systems
2018 — 2021 · GPA 3.52

LANGUAGES

Arabic — Native
English — Professional