

YOUNES ATTAOUI

SENIOR FULL STACK SYSTEMS ENGINEER

React • Next.js • Node/NestJS • PostgreSQL | Real-Time Systems • SaaS • AI • ERP/CAD

CONTACT

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EDUCATION

CS50 COMPUTER SCIENCE — HARVARD ONLINE
2018 – 2019

DATA SCIENCE & BIG DATA — EDX PROGRAM
2020 – 2021

SKILLS

- React / TypeScript
- Next.js (SSR)
- Node.js / NestJS
- PostgreSQL / PostGIS
- Docker / Kubernetes
- CI/CD · GitHub Actions
- WebSockets / SSE
- Redux Toolkit
- React Three Fiber
- Redis
- Jest / RTL / Playwright
- Gemini API / LLM pipelines
- D3 / Recharts / WebGL
- Micro-frontends

LANGUAGES

- English (Professional Working Proficiency)
- Arabic (Native)
- French (Professional Working Proficiency)
- Spanish (Basic)

Available for Remote Full-Time, Contract/B2B, and Founding Engineer opportunities.

PROFILE

Senior Full Stack Systems Engineer with 6 years building production-grade systems — real-time GPS fleet platforms, AI-assisted 3D configurators, ERP/CAD automation, and operational SaaS. Expert in React / Next.js and NestJS APIs with full data-layer ownership (PostgreSQL/PostGIS, Redis). Delivered sub-second GPS telemetry pipelines, natural-language-to-3D AI workflows, CAD-to-JSON automation, and vehicle immobilization systems. Measurable outcomes: +25% stability via CI gates, +20% CSAT. Shipped products as founder, lead engineer, and system architect across real-time, AI, ERP/CAD, and SaaS domains.

WORK EXPERIENCE

Tecnibo 2024 – PRESENT

Senior Full Stack Engineer Morocco · Remote to UK / EU

AI-Powered 3D Room Configurator

- Architected company-wide real-time 3D planning suite: React + TypeScript, Next.js/SSR, React Three Fiber, production-scale.
- Designed natural-language-to-3D pipeline: user prompt → Gemini LLM → Zod-validated JSON → scene parser → live R3F render.
- Built constraint-enforcement placement engine: collision detection, rule evaluation, orbit controls, undo/redo state machine.
- Wired WebSockets/SSE real-time change logs and time-series dashboards (D3, Recharts, WebGL) for live multi-user sessions.

ERP / CAD Product Configurator · Micro-frontend inside Odoo

- Transformed AutoCAD/IMOS binary-tree data to normalised JSON; idempotent sync with referential integrity (PostgreSQL).
- Modelled compatibility rules as AND/NOT-AND boolean trees; SAT evaluation for valid wall/panel placements at runtime.
- Shipped React configurator as iframe/SDK micro-frontend into Odoo CRM with secure token exchange; enabled auto-orders.
- CI gates: Jest + RTL + Playwright for 300+ modules — delivered +25% stability and +20% CSAT across stakeholders.

RentFlow · Founder 2023 – PRESENT

Lead Full Stack Engineer Morocco · SaaS / Product

- Sole product owner end-to-end: roadmap, NestJS/PostgreSQL backend, Next.js frontend, DevOps (Docker), customer operations.
- Built custom Node.js TCP server parsing Teltonika binary AVL protocol for real-time GPS ingestion at sub-second latency.
- Implemented two-step immobilization workflow: speed-gate safety check, audit trail, GPRS command relay, SMS alert to driver.
- Stack: Next.js · NestJS · PostgreSQL + PostGIS · Redis · Docker · Teltonika GPS · TypeScript.

Freelancer / Contributor — CodeYourFuture 2020 – 2023

Full Stack Engineer Remote

- Delivered 10+ production web applications (React, TypeScript, Next.js, NestJS) with improved UX and faster task throughput.
- Designed REST/JWT API integrations and optimised PostgreSQL queries → improved reliability and load times across services.
- Led 15+ code reviews; introduced CI/CD pipelines (GitHub Actions, Docker) → raised delivery quality across distributed teams.
- Built automated unit/integration tests for 300+ modules (Jest, RTL, Playwright) — reduced regressions and support overhead.

Electron Studio (Internship) 2019 – 2021

Junior Software Developer Remote

- Assisted code reviews for React/Node components; delivered focused PR feedback aligned with senior engineer standards.