

Mohamed Saad

Senior Software Engineer - Full Stack

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SUMMARY

Senior software engineer with 6+ years building and scaling web and mobile products across travel, fintech, and real estate. Deep expertise in React, Next.js, Node.js, and TypeScript, with production experience across Node.js, PostgreSQL, Redis, AWS, testing, and observability. Delivered systems that cut mobile release time from two days to 20 minutes, reduced translation costs from \$11K to \$25 per month, and removed 7.5–10 hours of weekly finance work. Open-source contributor to Vitest and Storybook.

SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, React Native, TanStack Query, Tailwind CSS, accessibility, web performance

Backend and data: Node.js, NestJS, Fastify, Python, FastAPI, PostgreSQL, Redis, REST, GraphQL, BullMQ

Cloud and quality: AWS, Docker, GitHub Actions, CI/CD, Vitest, Jest, React Testing Library, Playwright, ELK, Sentry

Applied AI: RAG, LLM APIs, agent workflows, provider integrations

EXPERIENCE

Rahal · Software Engineer · Remote · Mar 2026 – Present

Travel booking platform for Iraq (flights and hotels)

- Automated supplier-credit alerts and daily booking reconciliation, eliminating 7.5–10 hours of finance work per week.
- Shipped customer-facing flight and hotel booking flows in Next.js and React, owning delivery from design review through release with complete loading, error and edge-state coverage.
- Proposed and built a serverless Node.js supplier log service that surfaces the real reason each booking failed, replacing manual log digging and cutting ops escalations to engineering by **~50%**.

Emeritus · Consultant, Technical SME (Contract) · Remote · Sep 2025 – Jun 2026

- Led a cross functional team of SMEs and instructional designers to deliver a technical training program for UAE PASS integration (TDRA), aligning government stakeholders through structured workshops and technical reviews.
- Architected a reusable content pipeline and hands on coding labs with automated tests, letting service providers practice secure integrations end to end before going live.

Amana Capital · Senior Software Engineer · Remote · Jul 2024 – Oct 2025

Fintech: online trading and market data

- Cut translation costs by **99% (\$11K to \$25 a month)** by replacing the Google Translate API with a self hosted open source ML model (FastAPI, Hugging Face).
- Architected and built a shared design system, microfrontend CLI and codemods to standardize frontends across teams, cutting migration effort by **70%**.
- Built GraphQL and REST market data APIs in Node.js and PostgreSQL (market movers, dividends, sharia compliant stocks) plus a Redis time range cache that served **sub millisecond** responses and cut data fetch complexity by **60%+**.
- Designed a BullMQ news aggregation pipeline with ML translation, ingesting **15+ financial sources** daily.
- Built the observability stack (ELK with Docker and Ansible) and a Node.js logging library streaming structured logs over TCP, cutting log latency by **40%+** and speeding up incident detection.

Atar · Senior Software Developer · Remote · Mar 2022 – Jul 2024

Real estate SaaS: property management system and marketplace

- Rearchitected the tightly coupled core property management system into a modular monolith with clean architecture, cutting feature lead time from **days to about a day**.
- Raised the Next.js marketplace's Lighthouse performance score from **60 to 98 (+63%)** by reworking rendering, SEO and asset loading.
- Built mobile CI/CD with GitHub Actions and Fastlane, replacing a 2 day release process and cutting release time by **99%, to 20 minutes**.
- Introduced Playwright, Vitest and Jest coverage to a legacy codebase, reducing post release bugs by **~20%** and stabilizing CI.

- Created reactscf, a CLI that scaffolds standardized React modules, and other internal tooling that sped up feature work across teams.

Appenza Studio · Software Developer · Cairo · Jul 2020 – Feb 2022

- Delivered full stack web and mobile apps for regional clients with Angular, Ionic and .NET, with REST APIs and Dockerized deployments.
- Built an analytics SDK published on npm (TypeScript, Jest) and GitLab CI pipelines that shortened deployments.

OPEN SOURCE

- **Vitest**: merged 2 PRs after review rounds with core maintainers: #11038 fixed Vitest UI treating suite selections as test cases with a new suite level report view, and #10954 added module diagnostic test coverage.
- **Storybook**: merged PR #36015, fixing a severity S2 bug where Angular story docs snippets dropped unknown standalone component metadata.
- Additional contributions include CI benchmarks for [qs](#), DevOps Roadmap content filters, and community PR reviews in Vitest.

PROJECTS

- [doc-assistant](#): Architected a RAG app that answers questions over PDF and Word files and streams cited answers over SSE (FastAPI, ChromaDB, Anthropic or OpenAI, React 19). Designed without LangChain on Strategy, Factory and Repository layers, with swappable LLM and embedding providers, ADRs, Prometheus metrics, and pytest and Vitest suites.
- [tdepend](#): a JDepend inspired dependency analysis CLI and library for TypeScript that computes coupling, abstractness, instability and distance metrics, detects cycles, and fails CI on architecture threshold violations.

LEADERSHIP

- Web Team Leader, MSP Tech Club at Al Azhar University, and IT Head, Energia Powered: led student developer teams and mentored new developers.

EDUCATION AND CERTIFICATIONS

Al Azhar University · Bachelor of Medicine · 2017 – 2023

AWS Certified Solutions Architect, Associate · 2025

Languages: Arabic (native), English (fluent)