

Ammar Hamdi Hammouch

Frontend Developer

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PROFESSIONAL SUMMARY

Three years building production frontends for complex domains — ERP accounting screens, telehealth dashboards, and POS transaction UIs that had to stay fast under real use. Next.js and TypeScript throughout, with CI/CD and Cypress gates on every PR. Strong on React Query SSR patterns, server components, and holding complex state together across multi-step flows.

EDUCATION

Bachelor in Computer Science, Jazan University

2021 – 2025

GPA: 4.86 / 5 — First Class Honours

PROFESSIONAL EXPERIENCE

Software Engineer, Entropy

09/2025 – Present

LLM evaluation platform benchmarking Arabic-language model performance.

- Built a microservices ingestion pipeline for LLM training datasets: upload verification and corruption scanning, format validation for CSV, XML, and JSON, metadata quality checks, Label Studio annotation integration, and BullMQ + Redis job orchestration.
- Datasets move from upload to annotated export with no manual step between stages.
- Connected an internal RAG chatbot to Microsoft Teams and Slack via FastAPI — connection management, reconnection on drop, and query routing to an indexed internal knowledge base.

Integration Specialist, Thmanyah

01/2025 – 05/2025

Media and podcast company. Internal systems across HR, TA, and Marketing.

- Built the frontend for a multi-source aggregation platform — a configurable data-heavy UI pulling from Tally, Google Forms, Airtable, and Excel into an internal CRM, with flow configuration screens similar to n8n and auto-distributed performance reports.
- Cut manual reporting turnaround by ~60%.
- Built an internal HR platform covering payroll, notice periods, and 3-month probation evaluations — Next.js frontend with Puppeteer-driven PDF report generation, job queuing on BullMQ + Redis, and heavy schema migration work on Drizzle ORM.

React Native Developer, Motmaina Medical Center

04/2024 – 12/2024

Telehealth consulting platform for mental health.

- Built the React Native app end to end — state architecture managing health session state, patient–doctor handoffs, and booking flows across the full care cycle.
- Built the admin dashboard in Next.js with React Query: hydration for SSR performance, interceptors for auth token injection, server components for initial render, and query invalidation so stale session data is never shown to a provider. Real-time visibility into sessions, providers, and clinical activity.
- Integrated real-time chat and a voice/video SDK; AWS S3 + Lambda for secure media upload and processing.

Technology Integration Intern, Reachware

08/2023 – 04/2024

iPaaS platform serving SMB and enterprise clients across the Middle East.

- Worked on ZATCA e-Invoice Phase 2 (FATOORA) compliance integration: XML schema validation, cryptographic invoice signing, and real-time clearance against the ZATCA API.
- Built data integration pipelines between Snowflake and ServeMe for financial reporting and analytics.

Enterprise Application Developer, COMT

08/2022 – 08/2023

F&B technology.

- Built the React Native POS frontend with a sub-30-second transaction cycle — entry through order, payment, and receipt — a UX and performance constraint that meant every render, transition, and state change had to stay fast under high throughput.
- Designed the full checkout flow to run in one local RealmDB write transaction with no API call on the critical path, keeping the UI responsive through network interruptions and reconciling on reconnect.
- Set up CI/CD with Cypress end-to-end QA gates — tests cover the full checkout flow and failing tests block PR merges.

PROJECTS

Credit Engine 📄, Next.js 15 Credit Dashboard

Built the user interface for an automated SME credit platform using a native **RTL Arabic layout**. Implemented a **Server-Sent Events (SSE)** connection to stream live risk-analysis data into interactive **Recharts radial meters**, filling the score breakdown incrementally as background checks complete.

Turned a technically complex financial calculation into a smooth, step-by-step user journey across profile setup, file uploads, and live decision reviews.

Next.js 15, TypeScript, SSE, Recharts, Tailwind CSS, RTL.

Flow Studio 📄, Visual Workflow Builder & Document Dashboard

Designed the frontend dashboard and visual engine for an automation platform transforming form submissions into custom documents. Built an

interactive workflow mapping interface (similar to n8n) that manages complex nested form states and renders instant, high-fidelity PDF previews directly in the browser. Enforced strict client-side validation to catch payload errors early at the interface level. **React.js, Next.js, Tailwind CSS, Client-side Validation.**

COMT POS 📄, High-Throughput Transaction UI

Developed a mobile retail point-of-sale frontend optimized for speed and zero-latency barcode scanning. Built with **React Native and RealmDB** for local-first storage, keeping the full checkout flow completely responsive during network drops and silently syncing data on reconnect. Rendered tax calculations and compliance QR codes directly from local device memory to guarantee a sub-30-second transaction cycle. **React Native, RealmDB,**

TypeScript, Offline State.

Jawlat *🌐, React Native Tourism App*

Architected a localized tourism mobile app with a fully mirrored **RTL Arabic interface**. Managed dynamic view layers that combine location discovery, group trip schedules, and guide bookings onto a unified map. Integrated map tile caching for smooth user panning in remote regions with spotty coverage, and built a battery-optimized background tracking layer to safely update live group positions. **React Native, Mapbox GL, Geolocation APIs, RTL Layout.**

SKILLS

Frontend

React.js, Next.js, React Native, TypeScript, JavaScript

Styling

Tailwind CSS, CSS Modules

Backend Awareness

Node.js, PostgreSQL, Redis, BullMQ, Docker

State and Data

React Query, SSR and Server Components, REST APIs

Testing and CI/CD

Cypress, CI/CD, GitHub Actions

CERTIFICATIONS

ML Engineering and MLOps Training — Issuer: Qafza |

Date: March 2025

AWS Cloud Practitioner CLF-C02 — Issuer: AWS

LANGUAGES

Arabic — Native

English — Professional