

Ahmed Hamdy

Senior Software Developer | React · Next.js · React Native · NestJS

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PROFILE

Senior Software Developer with 4+ years of experience building Fintech, AI and SaaS products across web and mobile. Specialized in React, Next.js and React Native (Expo), with hands-on backend experience in NestJS and PostgreSQL. Currently building the front end of RytNow, an AI-powered consumer and auto finance platform: admin, sales and bank portals, a mobile app, and voice and chat AI agent interfaces. Strong in Keycloak/JWT authentication, role-based access control, real-time features, Arabic/English (RTL/LTR) interfaces and offline-first apps. Former front-end team lead.

SKILLS

Languages	TypeScript, JavaScript (ES6+), HTML5, CSS3, SQL
Web	React, Next.js (App Router), Vite, Tailwind CSS, shadcn/ui, Radix UI, Framer Motion, Recharts
Mobile	React Native, Expo (Expo Router, EAS, OTA updates), NativeWind, PWA
State & Forms	TanStack Query, Redux Toolkit, Zustand, XState, Context API, React Hook Form, Zod
Backend & Data	NestJS, Node.js, Hono, Express, PostgreSQL, TypeORM, Drizzle ORM, Prisma
Auth & Security	Keycloak (OIDC, Keycloakify), JWT, Passport.js, RBAC, 2FA (TOTP)
Real-time & AI	WebSockets, Socket.IO, LiveKit, Web Audio, OpenAI / Gemini APIs, Generative UI
i18n & UX	i18next, RTL/LTR layouts, accessibility, responsive design, design systems
Tools	Git, Docker, Jest, Vitest, Playwright, Storybook, Postman, Swagger

PROFESSIONAL EXPERIENCE

Senior Software Developer · PROXYM 02/2026 – Present

Building RytNow (rytnow.ai), an AI-powered consumer and auto finance platform for banks, dealers and their customers.

Consumer Finance Admin Portal *React, TypeScript, Vite, TanStack Query, shadcn/ui, Keycloak, Playwright*

- Built and maintain the platform's admin portal: customer management, collection queues and follow-up, decision tables, facility parameters, marketing campaigns and cron job management.
- Implemented backend-driven RBAC: sidebar menus and route guards are loaded per user from the permissions API.
- Built a backend-driven theming architecture so each partner brand gets its own look from one codebase.

Sales Portal & Bank Portal *React, TypeScript, XState, Keycloak, WebSockets, Web Audio API*

- Built the sales agents' portal for auto-loan applications, with a multi-step onboarding flow modelled as an XState state machine and OCR-based document capture.
- Implemented real-time voice calls with AI agents over WebSockets: microphone capture, PCM16 audio conversion, queued playback and auto-reconnection.
- Built the credit-review portal for partner banks (officers, branch staff, credit managers) on the shared shell, with a mock mode so UI work continued before backend endpoints were ready.

RytNow Mobile App & Sales Mobile App *React Native, Expo Router, Zustand, TanStack Query, i18next, Jest*

- Built the customer mobile app with full Arabic/English RTL support, a token-based theme from the Figma UI kit, secure storage and over-the-air updates.
- Built a mobile version of the sales portal for field agents, with camera document capture and charts.

AI Agent Platform *React, @xyflow/react, LiveKit, react-markdown, Framer Motion*

- Built the dashboard for managing voice AI agents: assistants, phone numbers, knowledge bases, tools, call logs and a visual workflow builder.
- Built the AI chat interface with streaming Markdown and generative UI cards that render structured agent responses.

Identity & Website *Keycloakify, Storybook, Next.js 16*

- Built a multi-brand Keycloak login theme (Keycloakify v11) that ships one JAR per brand for four bank and partner brands.
- Built the rytnow.ai marketing website with Next.js: static pages, structured data (JSON-LD), sitemap and a protected "Book a demo" form.

Front-End Developer · Gemma Technology Company (GTC)

10/2025 – 01/2026 · Remote

GTC Dashboard *React 19, Vite, Redux Toolkit, Tailwind CSS 4, Radix UI*

- Built a business administration SPA with real-time charts for sales, customer growth and staff performance (Recharts).
- Structured app state in modular Redux Toolkit slices (auth, dashboard, theme, language).
- Built client and group management: CRUD, profiles and group membership.
- Added English/Arabic support with i18next (RTL/LTR), protected routes with role-based access, dark/light themes, and forms with React Hook Form and Zod.

GTC Loyalty Boost *Next.js, TypeScript, Tailwind CSS, Framer Motion, React Query*

- Built a customer loyalty SaaS with WhatsApp integration, analytics dashboards and automated marketing campaigns.
- Used the Next.js App Router for performance and SEO, built a scroll-animated landing page with Framer Motion, and managed global state and multi-language support with Context API.

Front-End Developer & Team Lead · Codgoo

07/2024 – 10/2025 · Asyut, Egypt

- Promoted to team lead: led a team of developers building front-end solutions with modern tools and frameworks.
- **Al-Mamlaka TV website:** built fast, responsive interfaces for a news channel, tuned for heavy content and a large audience across browsers.
- **Al-Mouwasat Hospital portal:** built an accessible patient-facing front end that simplifies booking and medical record access.
- Built the SBYP user interface from scratch, focused on responsive design, accessibility and performance.
- Worked with the BuilderERP front-end team on a component-based UI for managing ERP systems.
- Refactored legacy web apps to modern code, and built CMS platforms and e-commerce/dropshipping sites (product management, cart, checkout, third-party APIs).

Front-End Developer · CodeAcademy

02/2024 – 06/2024 · Asyut, Egypt

- Built responsive React.js interfaces and contributed to the web architecture of team projects.

Front-End Developer · El Hadf Company

08/2022 – 06/2023 · Asyut, Egypt

- Built 4 web applications with React.js, Redux and TypeScript, including an exchange rates dashboard.
- Built a single-page app that visualizes JSON data with React, Redux and Three.js on a Node.js backend.
- Shipped new features and fixed production bugs to improve the user experience.

FREELANCE PROJECTS

Abnoub Green – Waste Collection Management Platform

2026

Full-Stack · Next.js 16, React 19, TypeScript, PostgreSQL, Drizzle ORM, Auth.js, Serwist, Docker · abnoub-green.com

- Built and deployed a live platform for an NGO's EU-funded environmental initiative, managing household waste collection in Abnoub.
- Admin dashboard: household registry with maps, collections, complaints, campaigns, subscriptions and billing, sales of sorted materials, reports, audit log and permissions.
- Offline-first field app for collectors (Service Worker + IndexedDB with automatic sync) and a public portal for residents; installable PWA with Web Push.
- Auth.js with JWT sessions and optional TOTP two-factor login; deployed with Docker Compose and Caddy (automatic HTTPS).

Multi-Tenant POS & ERP System

2026

Full-Stack · React (PWA), Zustand, Hono, PostgreSQL, Drizzle ORM, Electron, Docker

- Designed a SaaS point-of-sale system for supermarkets, restaurants and cafés, with a separate PostgreSQL schema per business for data isolation.
- Fast cashier screen with barcode scanning and keyboard shortcuts; restaurant tables, delivery, inventory, suppliers, HR and payroll modules.
- Double-entry accounting engine, audit trail with soft delete, and daily backups; desktop build with Electron and a full Arabic RTL interface.

Vetro – Veterinary Pharmaceuticals Website

2025 – 2026

Front-End · React, Vite, Tailwind CSS, Framer Motion, GSAP · vetro-egy.com

- Built the live corporate website for a veterinary pharmaceuticals company: product catalogue, services, articles, testimonials and contact.
- Arabic-first SEO (meta and Open Graph tags), scroll animations, dark/light themes, lazy loading and an offline notice.

CaloSmart – AI Weight Loss Assistant

01/2026

Full-Stack Mobile · React Native, Redux Toolkit, NestJS, OpenAI / Gemini APIs

- Built a mobile app that estimates calories and nutrition from a photo of the meal using AI image analysis.
- Personalized diet plans from user metrics (BMI, goals, preferences) and interactive charts for weight and calorie history on Android and iOS.

Byotna – Real Estate & Services Platform

11/2025

Backend · NestJS, TypeScript, PostgreSQL, TypeORM, JWT, Passport.js, Swagger, Jest

- Designed a modular NestJS API with RBAC for individuals, companies and super admins (JWT guards, custom decorators).
- Built company verification and approval, tiered subscriptions (Bronze/Silver/Gold) with scheduled renewal reminders, and messaging limited by subscription status.
- Built advanced property search and filtering, and a notification service for in-app, email and push alerts.

CaterFlow – Catering & Restaurant Management System

10/2025

Backend · NestJS, TypeScript, PostgreSQL, TypeORM, Socket.IO, Docker, Swagger

- Built the API for multi-branch catering operations: recipes, raw materials, suppliers, waste logs, purchase and transfer requests, and inventory audits.
- Real-time chat and notifications with Socket.IO; JWT/Passport.js access control across branches and departments; scheduled maintenance tasks.

Real-Time Currency Exchange Dashboard

07/2024

Front-End · React, Redux Toolkit, Google Charts, REST APIs

- Built a Fintech dashboard showing live exchange rates and trends from third-party financial APIs, with Redux Toolkit for consistent, lag-free updates.

EDUCATION

Front-End & Cross-Platform Mobile Development · ITI – Information Technology Institute

07/2022 – 12/2022

Bachelor of Art Education · Faculty of Specific Education, Assiut University

09/2015 – 09/2020

COURSES

Front-End Developer · IU Academy

09/2021

Computer Science Fundamentals · Assiut University

11/2019