

Mohamed Reda Bellassery

Full-Stack Developer · Fintech & Payments · React Native · PostgreSQL · AI & RAG

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SUMMARY

Full-stack developer and founder of Barmjli, shipping production web and mobile software end to end, solo, for five years. I design money-critical backends in PostgreSQL (append-only ledgers, idempotent writes, row-level security), build LLM features with retrieval, evals, guardrails and cost control, and take products through store release to paying users. MSc Finance & Markets student in Macerata; available **part-time (up to 20 h/week) and remote** across EU time zones.

28,900+ Spirex users	4.8/5 Google Play rating	56 Play Store releases	15 client projects in 2026	2,150+ Nawafid students
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EXPERIENCE

Founder & Full-Stack Developer — Barmjli, web & mobile agency (registered 2025) Remote · 2021 – present

- Delivered **15 client projects in 2026 (~€30k contracted)**: web and mobile apps, LMS platforms, marketplaces, medical and fintech tools, AI assistants.
- Own the full lifecycle alone: spec, data model, backend, UI, store release and maintenance.
- Clients include **Biggo** (trilingual car marketplace; subscription packages enforced by Postgres triggers, feature flags, admin permissions) and **Doc10** (clinic booking with patient portal, roles and Telegram alerts).

Website Developer Intern — Law office, Bejaia, Algeria: built a client and case-management portal Nov 2024

SELECTED PROJECTS (BUILT SOLO)

- Spirex** — AI trading-analysis app · fintech, B2C · Live on Google Play
React Native, TypeScript, Supabase Edge Functions (Deno), PostgreSQL, OpenAI GPT-4o & Realtime, WebRTC
- Arabic-first app turning a pair and timeframe into a trade plan (entry, stop, targets, R:R) for gold, forex, crypto and indices; **28,900+ users, 4.8/5 rating, 56 releases**, paid tiers.
 - Ported a self-hosted n8n pipeline to edge functions with provider fallbacks, server-side indicators and keys in Vault.
 - Built a guard that validates LLM trade levels (price band, SL/TP order, ATR repair) and real-time voice AI with device-bound trials and server-side cost metering.
- Sanad** — AI document assistant for SMEs · RAG, agents, B2B SaaS · 2026
Python 3.12, FastAPI, PostgreSQL 16 + pgvector, LangGraph, React 19, Docker, GitHub Actions
- Answers questions on contracts, invoices and policies (EN/IT/AR) with **verified page citations** via hybrid search (RRF).
 - Multi-tenant with Postgres RLS (fail-closed tenant context), a LangGraph agent whose actions wait for human approval, prompt-injection and PII guardrails, and a **44-question eval suite gated in CI** (retrieval hit@3 1.00, citation accuracy 0.94).
- Al Burhan** — Multi-branch cash-control platform · fintech, B2B · Signed beta in 4 weeks
React Native, TypeScript, Zustand, Supabase, PostgreSQL
- Append-only money engine for a four-branch retail group: 25 tables, zero client-write RLS, 15+ SECURITY DEFINER RPCs, integer-centime amounts, denomination-level counts.
 - Idempotent financial writes (client UUID keys) and atomic operations: sale-with-change, blind end-of-day reconciliation, cross-branch transfers with CFO settlement.
- Nawafid** — E-learning marketplace · edtech, web · Live at nawafiddz.com
React 18, TypeScript, Vite, Supabase (PostgreSQL 17, Edge Functions), Mux, OpenRouter
- 2,150+ students, 760+ enrolments**: Mux video with HMAC-verified webhooks, AI-generated quizzes, 4 roles with page-level staff RBAC, 21 tables, 51 routes.
 - Gateway-free payments (CCP/BaridiMob receipt approval) with commission splits; client-side WebP kept storage free.
- Also shipped: **Belka** (English app on Google Play), **Nibras** (AI research assistant), **Arthand** (artist marketplace), all on my portfolio.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, SQL / PL/pgSQL, HTML/CSS
Mobile	React Native (bare CLI, New Architecture), Expo, Reanimated, Zustand, WebRTC, Play Store releases
Web	React 18/19, Next.js 14, Vite, Tailwind CSS, shadcn/ui, TanStack Query, Zod, i18next (RTL)
Backend	Supabase (Auth, Edge Functions, Vault), PostgreSQL (RLS, SECURITY DEFINER, pgvector), FastAPI, Node.js
AI & payments	RAG and hybrid search, LangGraph agents, evals, OpenAI and Claude, tool calling, Chargily Pay, webhooks

EDUCATION, LANGUAGES & AVAILABILITY

MSc Finance and Markets (LM-16, taught in English)	University of Macerata, Italy	2026 – 2028
Bachelor of Business Management	University of Ain Temouchent, Algeria · Graduate Startup Program	2022 – 2025
Languages	Arabic (native) · English B2 (IELTS Academic) · French B1 · Italian A1 (still learning)	
Availability	Part-time up to 20 h/week (student permit) · tirocinio eligible · remote across EU time zones	

Autorizzo il trattamento dei miei dati personali ai sensi del D.Lgs. 196/2003 e del GDPR (Reg. UE 2016/679).