

Zakarya Rahim

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Summary

Backend engineer with 3+ years of production experience building distributed systems, microservices, and REST APIs across logistics, HR, SaaS, and e-commerce domains. Core stack: NestJS, Django/DRF, PostgreSQL, RabbitMQ, Redis, Docker, and TypeORM. Experienced in event-driven architecture, RBAC systems, async data pipelines, and third-party webhook integrations. Available for senior backend and full-stack remote roles.

Technical Skills

Languages: TypeScript, Python, JavaScript, Dart

Backend: NestJS, Django, Django REST Framework, Node.js

Databases: PostgreSQL, MySQL, SQLite, Redis

Messaging: RabbitMQ, event-driven architecture, microservices

Frontend: React, Next.js, Angular, Flutter, Electron, Shopify Liquid

Tools: Docker, Git, GitHub, Celery, TypeORM, Swagger/OpenAPI, Webpack, Vite

Patterns: REST API design, RBAC, CQRS, webhook integration, HMAC validation, soft-delete, audit trails

Experience

Backend Engineer, Contractor

OURQUILANE – Remote, Algeria

Mar 2024 – Present

Full-time Freelance

- Designed and built an orders microservice in a NestJS 11 monorepo (RabbitMQ, PostgreSQL, Redis, TypeORM) with a FulfillmentOrchestratorService using typed snapshot/delta diffing for precise stock reconciliation across order updates; managed 10+ inter-service RPC relationships via a shared client module with centralized error handling and per-client timeout configuration.
- Implemented Shopify, WooCommerce, and Google Sheets webhook integrations with HMAC signature validation, request deduplication, geographic data enrichment, and structured error responses; built a Google Drive channel renewal mechanism with a manual trigger endpoint.
- Built a full HR management platform (NestJS 10, Angular 16, MySQL) across 26 backend modules with CASL-based RBAC, JWT/Passport auth, async audit trail over RabbitMQ, PDF generation with Arabic/RTL text rendering and QR codes, ExcelJS exports, and multi-role document request flows with supervision-hierarchy-based auto-assignment.
- Built an on-demand service platform (Django 5.2, DRF, PostgreSQL) with a 9-state order lifecycle, declarative financial status transitions, dual-agent assignment, SoftDeleteQuerySet/Manager pattern, composite DB indexes, cryptographically random tracking codes, and PDF receipt generation via WeasyPrint.
- Built a logistics KPI dashboard (Django 5, DRF, Celery, React) with a 4-level organizational hierarchy, 8 user roles, a 5-dimension station scoring engine with configurable thresholds and a 0–20 point formula per dimension, and a production-hardened daily data pipeline with paginated fetching, retry logic, file backup, and cascading recalculation.

Freelance Software Engineer

Self-employed

2024 – Present

- Built a full-stack booking platform (Next.js 16, Firebase) with a real-time availability calendar, admin dashboard with analytics and member management, JWT auth, and dark mode; maintained in production for 1+ year, including a React Server Components CVE patch applied under live conditions.
- Built and shipped a desktop ERP (Electron, SQLite, Node.js) packaged as a Windows installer with 12 versioned database migrations, per-user per-page RBAC, soft-delete audit trail across all entity tables, PDF receipt generation via PDFKit, bcrypt password hashing, and Google API sync.
- Built a cross-platform mobile app (Flutter, Dart) with tri-lingual CSV datasets parsed at runtime, dynamic language switching via a custom LanguageService, favorites persistence, and deep links; deployed on Android and iOS.
- Built two custom Shopify themes using Liquid: one RTL Arabic-focused storefront with adapted catalog structure, one animation-forward brand experience with motion-driven UI and transitions.
- Built marketing websites and landing pages (React, TypeScript, Next.js, Vite) with WordPress CMS integrations via Axios, i18n using i18next, GSAP animations, and multilingual pricing components across 7 languages.

Data Science Bootcamp Instructor

GOMYCODE – Algiers, Algeria (Remote)

Dec 2023 – Apr 2024

Part-time

- Taught full-stack web development to student cohorts; conducted hands-on workshops and live code reviews.

Languages

Arabic: Native **French:** Fluent **English:** Professional (B2)