

Nader Adel

Backend Engineer | Node.js · TypeScript · PHP · Laravel · PostgreSQL

Cairo, Egypt

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PROFESSIONAL SUMMARY

Backend engineer with a year and a half of production experience on a modular monolith of 127 bounded contexts, used by around 5,000 people across sales, HR, finance, marketing, recruitment, learning, supply chain and project management. My strongest work is integration and async: typed third-party API clients that survive rate limits, queued jobs, reconciliation sweeps and a 35-file test suite. I write TypeScript across the stack — Next.js screens in production and services in Node.js with Express — and I am building my next services in NestJS, whose module and dependency-injection model maps onto the architecture I work in daily.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, PHP, SQL
Backend	Node.js (Express), Laravel 9–12, Laravel Octane (FrankenPHP), Passport, Sanctum, Fortify, Filament
Databases	PostgreSQL, MySQL, Redis (cache, queue & session)
Architecture	Modular Monolith, Bounded Contexts, Repository Pattern, REST API Design, Event-Driven Architecture, SOLID Principles
Async & Realtime	Queues & Background Jobs, Task Scheduling, WebSockets (Reverb / Pusher / Echo), Server-Sent Events, Webhook Consumers
Integrations	Odoo, Bayut Listings API, Meta Marketing & Conversions API, Firebase Cloud Messaging
Access Control	Role-Based Permissions, Policies, Eloquent Global Scopes, TOTP Two-Factor Authentication
Testing & Tools	PHPUnit, Pest, Jest, Postman, Git & GitHub, Linux, Laravel Telescope, Sentry
Currently Learning	NestJS, Docker, CI/CD (GitHub Actions), AWS, Database Performance & Query Optimization, System Design

PROFESSIONAL EXPERIENCE

Backend Software Engineer	August 2025 – Present
The Address Investments – Cairo, Egypt	
• Own features end to end in the HR, Unit, Deal, Lead, Learning, Developer Project and Task Management modules, alongside roughly 40 engineers, while still maintaining the older Laravel 9 CRM that serves the group's other companies. • Designed the appraisal objective-setting workflow. Its five stages are derived from submission and review stamps rather than stored, and lock fail-closed when the window shuts, so HR runs each cycle with no manual stage bookkeeping and nothing is editable after the deadline. • Built the appraisal question and answer engine with a hierarchy-aware Eloquent global scope, so every manager sees only their own reporting line without a single per-query permission check. • Integrated an internal objective-quality service behind a queued, feature-flagged client with verdicts pushed over WebSockets. Verdicts stay advisory, so an outage of that service never blocks an appraisal cycle. • Built the CV parsing and job-matching pipeline for recruitment. The queued job retries with backoff and saves parsed data before the optional match step, so recruiters still get structured candidates when the matching service is down. • Designed the service-desk SLA lifecycle, pausing and resuming first-response and resolution clocks under row-level locking, so breach reports reflect real waiting time and concurrent operators cannot overwrite each other. • Traced a bug where two filter sets shared one cache entry, then keyed lead statistics in Redis by user and filters and split a heavy dashboard aggregate into four authorised endpoints, so managers see correct numbers per filter. • Built the listing-unit domain and the Bayut portal integration end to end (35 test files): Excel import, a readiness service that reports every blocker before a publish is attempted, a rate-limit-aware client, queued publish and unpublish jobs, and an hourly reconcile sweep since Bayut has no webhooks, so agents publish CRM inventory to Bayut without re-entering it. • Extended the task-management workspace with project membership, a task-cancellation guard and a workload report against each member's working days, so leads see who is over capacity before assigning.	

- Added the tender Excel import with per-row validation logging and the Odoo tender-type sync command, so project teams load tender batches at once instead of one form at a time.
- Built the path that turns an approved company lead into a live tenant in one transaction, provisioning the company, franchise and owner account from the referring agent's ancestor chain, so a new franchise is onboarded with no manual setup.

Backend Engineering Intern

April 2025 – August 2025

The Address Investments – Cairo, Egypt

- Shipped lead and deal features into the group's Laravel 9 CRM, including a concurrency-safe booking flow for property-show events that claims an agent time slot and creates the linked lead in one locked transaction, so two agents can never hold the same slot.

KEY PROJECTS

Address Alliance – Broker Portal

The Address Investments · 2025 – 2026

Main backend engineer. Laravel 12, PostgreSQL, Passport. Gives external brokerages a self-serve deal pipeline.

- Built the deal domain covering the EOI, reservation and contracted lifecycle, with stage-specific pricing, dates and per-role commission fields, and a three-party approval flow across sales operations, collections and franchise owners, so no deal advances until every party has signed off.
- Kept the portal in two-way sync with the CRM: observers push on write and store the remote id without re-triggering model events, while inbound endpoints upsert developers, projects and unit types behind shared-secret middleware, so brokers see the same inventory as internal agents with no double entry.
- Hardened authentication: a suspended account loses all OAuth tokens immediately, plus TOTP two-factor with recovery codes and middleware keyed on token abilities.

Hush – Mobile Sales-Agent Backend

The Address Investments · 2026

Ten bounded contexts over twenty-seven tables, integration tests on the sync paths. Live with around 50 field sales agents.

- Built the Odoo integration: a typed API client, observer-driven queued push jobs, webhook ingestion, an event enum covering row, media and pivot-table changes, and eight inbound sync commands (products, stock, categories, units of measure, locations, vendors, visits, salespersons), so agents work from live stock and prices without opening Odoo.
- Implemented the daily visit, check-in and order flow with invoice tax and discount calculation, and one notification payload across Firebase push, broadcast, mail and database channels, so orders reach Odoo the moment an agent submits them.

MyTAI – Internal Employee App

The Address Investments · 2026

Next.js, React and TypeScript front end for the objectives, service-desk SLA and Bayut listing features above.

OPEN-SOURCE PROJECTS

Car Tracker – github.com/Naderadelp/car-tracker

2026

Laravel API for a car's services, fuel, trips, documents and reminders. 100 routes, 32 test files, Filament admin, Firebase push, deployed to Forge on push.

- Reminders fire by date or odometer through one whereColumn query plus an OdometerAdvanced event, so a reminder crossed mid-day does not wait for the scheduled run. Repositories behind contracts, event listeners, spec-kit specs.

Node.js REST API – TypeScript & Express

2026

Layered service built to the same structure I use in production: controller → service → repository, JWT authentication, bcrypt hashing, correlation-id request tracing, centralised error middleware, structured logging and environment-based config.

EDUCATION

Bachelor of Engineering, Communication & Electronics – Canadian International College (CIC), Cairo | 2022

ADDITIONAL EXPERIENCE

Mixed Martial Arts Coach – Cairo, Egypt | 2023 – 2025 (self-studied backend development alongside)

Compulsory Military Service – Egyptian Armed Forces | 2022 – 2023

LANGUAGES

Arabic (Native) · English (C1)