

YASSINE CASTRO

Senior Backend Engineer | Node.js · NestJS · TypeScript · AI Systems · Microservices

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PROFESSIONAL SUMMARY

Backend engineer with 5+ years of production experience, coding since age 14.

- **TypeScript / NestJS microservices** — 10+ services in production at a Canadian EdTech company
- **AI-powered backends** — LangChain, pgvector, RAG pipelines, multi-model orchestration (Claude, GPT-4, Gemini)
- **High-reliability async systems** — BullMQ + Redis, fault-tolerant job pipelines, Stripe payment flows

Highly accountable, delivery-driven, and remote-ready. Trilingual (Arabic, French, English). Targeting Senior Backend or AI Systems Engineering roles.

WORK EXPERIENCE

Senior Backend Engineer — Microservices & Integrations

April 2025 – Present

EdPulse Groupe Canada | Remote (Canada)

- Architected and maintain **10+ production NestJS microservices** in TypeScript covering registration, client management, job matching, appointments, finance, and recruitment — all deployed and scaled on Railway.
- Engineered a **high-throughput async job processing system** (BullMQ + Redis) handling thousands of daily tasks: transactional email pipelines, onboarding flows, data sync, and fault-tolerant retry with dead-letter queues.
- Integrated **Stripe payment processing and subscription billing** across multiple client-facing services, automating revenue flows and reducing manual invoicing overhead.
- Connected **5+ enterprise platforms** (TutorCruncher, Pipedrive CRM, Asana, Slack, Pabbly) via event-driven webhook integrations — eliminating manual data entry and automating cross-platform workflows.
- Built a **full internal CRM** (NestJS + React), automated PDF reporting (Puppeteer), structured observability (Sentry + Winston), and full OpenAPI documentation (Swagger).

Web Development Instructor

May 2023 – December 2023

GoMyCode Morocco | Casablanca

- Delivered full-stack curriculum (React, Node.js, MongoDB) across 10+ weekly workshops; mentored every student through architecture decisions and production deployment of their capstone project.

Founder & Developer

April 2017 – September 2021

Elite Gamers Community | Casablanca

- Founded and scaled a FiveM game server community to **100+ active members**; engineered 20+ custom Lua/JS server scripts and maintained production infrastructure for 4 years.

TECHNICAL SKILLS

Backend: NestJS, Node.js, Express, TypeScript, REST APIs, Microservices, BullMQ, Redis, Swagger, Zod

Frontend: React, Next.js, React Native (Expo), Tailwind CSS, shadcn/ui, Redux

DevOps: Railway, Docker, GitHub Actions, CI/CD, Sentry, Winston, AWS, GCP, Linux

Security: Penetration testing (Nmap, Burp Suite, Metasploit, SQLmap, Maltego), OWASP Top 10, JWT/OAuth2, secure API design

AI & ML: LangChain, OpenAI (GPT-4), Anthropic Claude, Google Gemini, pgvector, RAG, LangSmith

Databases: PostgreSQL (Supabase), pgvector, MongoDB, MySQL, Redis, RLS

Integrations: Stripe, Pipedrive CRM, Asana, TutorCruncher, Slack API, Pabbly, Puppeteer, Nodemailer

Languages: TypeScript, JavaScript (ES2022+), SQL, PHP, Lua, Rust (in progress)

PROJECTS

OutlawAlert

Real-time alert system built on event-driven architecture with WebSocket support, containerized with Docker for reproducible deployment.

github.com/yassinos-coder/outlawalert

ConvoApp

Real-time messaging platform with WebSocket-driven communication, full MERN stack architecture, Docker containerization.

github.com/yassinos-coder/ConvoApp

AlloMedic

Cross-platform healthcare appointment app (MERN + React Native) — mobile and web clients sharing a unified REST API backend.

github.com/yassinos-coder/AlloMedic

EDUCATION

Baccalaureat — Sciences Economiques | 14.93/20

Agdal Privee, Casablanca | June 2021

CERTIFICATIONS

React Native Cross-Platform — Coursera, Dec 2023

Full Stack JavaScript (MERN) — GoMyCode, Jan 2023

Rust Programming Specialization (In Progress) — Duke University / Coursera

LANGUAGES

Arabic: Native | French: Fluent | English: Professional