

YOUNES ESSAADANI

Senior Full-Stack Engineer | Backend & AI Systems

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PROFESSIONAL SUMMARY

Senior full-stack engineer with 4+ years of experience specializing in backend architecture and AI systems, including cross-functional technical leadership across SaaS, enterprise insurance, and digital archive platforms. Designed solutions serving 70K+ sellers and built document-processing architecture for 16M records, while improving critical page loads from 40+ seconds to under 4 seconds.

TECHNICAL SKILLS

AI & LLM Systems: RAG, LangChain, LangGraph, OpenAI API, Azure OpenAI, GPT-4o Vision, AI Search, Azure Document Intelligence

Backend & Architecture: TypeScript, Node.js, Express, NestJS, Spring Boot, REST, GraphQL, WebSockets, RabbitMQ, event-driven architecture, SOLID, design patterns

Frontend: React, Next.js 14/15, Angular, RxJS, Tailwind CSS, responsive design, lazy loading, HMR

Cloud & DevOps: Azure Functions, Blob Storage, Queue Storage, Azure SQL, GCP Cloud Run, Cloud Scheduler, Docker, Nginx, GitHub Actions, Azure DevOps, Jenkins, CI/CD

Data, Quality & Observability: PostgreSQL, MySQL, MongoDB, Redis, ELK Stack, structured logging, TDD, automated testing, Git, incident response

PROFESSIONAL EXPERIENCE

Senior Software Engineer Consultant | UNRWA

Apr 2026 - Present

Remote - Luxembourg

- Co-designed an Azure digital archive architecture built to ingest and store 16M documents across five countries; supported country-by-country rollout with 4M documents ingested to date.
- Engineered an event-driven ingestion workflow using Node.js, Azure Functions, Queue Storage, Blob Storage, and Azure SQL, decoupling processing stages and scaling workloads during peak demand.
- Integrated Azure Document Intelligence and AI Search to classify, extract, and retrieve records at 86%+ accuracy, limiting manual review to approximately 1 in 20 documents - and none for some document classes.
- Built a Next.js human-review interface for validating and correcting extracted data, improving operational control over automated document processing.
- Delivered a Fumadocs-based internal documentation portal for stakeholders and engineers, centralizing architecture guidance and accelerating onboarding.

Front-End Engineer | DXC Technology

Jul 2025 - Mar 2026

Remote - United Kingdom

- Developed modular Angular components for an enterprise insurance platform used by carriers, brokers, and technical operations teams.
- Migrated application modules from Angular 10 to Angular 18 and refactored legacy code to adopt modern Angular patterns, improving maintainability and upgrade readiness.
- Implemented route-level lazy loading to reduce initial bundle work and improve application startup performance across complex insurance workflows.
- Introduced Hot Module Replacement, replacing repeated 8+ minute workflow replays with near-immediate UI feedback and accelerating frontend iteration.
- Integrated RxJS-based frontend workflows with APIs delivered through a microservices architecture as part of a distributed engineering team.

Full-Stack Engineer / Technical Lead | Superintro

Jan 2025 - Jun 2025

Remote - San Francisco, USA

- Led sprint planning, architecture, code review, and technical delivery across frontend, backend, and UI/UX groups within a 14-member development team building an AI relationship-matching platform.
- Designed RAG-based matching pipelines with LangChain, LangGraph, and Azure OpenAI, increasing match relevance by approximately 30% for 400+ users receiving five recommendations each.
- Built the platform collaboratively using Next.js, Express, TypeScript, and MongoDB, including WebSocket-based real-time communication and in-app notifications.
- Containerized APIs and clients and deployed multi-environment services to GCP Cloud Run, supported by CI/CD pipelines and ELK-based logging and monitoring.
- Automated weekly match generation with GCP Cloud Scheduler and implemented subscription billing using Stripe and Stripe CLI.

Backend Engineer | Dropify

Sep 2023 - Dec 2024

Remote - Morocco

- Built and scaled backend capabilities for a SaaS e-commerce and storefront platform serving more than 70K sellers using TypeScript, Node.js, and Express.
- Accelerated storefront and landing-page loads from more than 40 seconds to under 4 seconds through MySQL query refactoring, database optimization, and Redis caching.
- Raised PageSpeed scores to 97+ on mobile and 99 on desktop by optimizing store rendering and critical landing-page delivery paths.
- Designed an event-driven AI landing-page generation pipeline with RabbitMQ, decoupling long-running generation jobs from interactive sessions for reliable asynchronous processing.
- Implemented fingerprint-based fraud-risk detection using behavioral and transaction metadata to compare activity with known fraud patterns and rank suspicious sessions.
- Containerized backend services with Docker to standardize development and deployment environments across the engineering team.

Junior Full-Stack Engineer | Lofty

Jul 2022 - Aug 2023

Marrakech, Morocco - On-site

- Modernized an internal CRM supporting 90-120 employees and approximately 2,000 seller clients using React, Express, Node.js, TypeScript, and MySQL.
- Reduced slow API response times by approximately 10-15 seconds through MySQL query and schema optimization, improving responsiveness across core CRM workflows.
- Migrated legacy modules toward a maintainable architecture using SOLID principles and design patterns, reducing coupling and simplifying feature delivery.
- Introduced test-driven development and automated tests to prevent regressions and improve confidence in production releases.
- Built finance, invoicing, reporting, authentication, authorization, and two-factor authentication modules for internal operations.
- Implemented CI/CD deployment pipelines that reduced release execution to under three minutes and standardized delivery.

EDUCATION

Professional Bachelor's Degree in Computer Science | Private University of Marrakech | Oct 2022 - Jul 2023

Specialized Technician Diploma in Software Development | ISTA NTIC, Beni Mellal | Oct 2020 - Jun 2022

LANGUAGES

Arabic | English | French