

David Reyes Alés

Backend Software Engineer · NestJS · Java · Distributed Systems

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Profile

Backend Software Engineer with 2.5+ years building real-time distributed systems in production. Track record of taking ownership beyond scope — from architectural improvements to company-wide infrastructure serving hundreds of users. Stack: NestJS, Node.js, Angular, Java. Currently completing an MSc at UC3M on industry projects integrating LLMs and knowledge graphs.

Work Experience

Software Developer — Industry Project

Universidad Carlos III de Madrid · Research Contract

Ongoing
Madrid, Spain

Developing production-grade software in direct collaboration with industry partners as part of the MSc programme, covering the full development lifecycle — design, implementation, testing, and deployment.

React/NextJS · ASP.NET · SQL · HocusPocus · SysMLv2

Full-Stack Developer

Axion · Telecommunications

2023 – 2025
Spain

Joined a 3-person team to rebuild from scratch a nationwide real-time monitoring platform for broadcast infrastructure — a project that had failed over 1.5 years of prior attempts. Delivered in 6 months; adopted by 30–50 operations users, after all previous versions had been rejected.

- **Performance:** Identified CouchDB bottleneck, introduced **Redis Stack** as caching layer (validated via POC), reducing load times **50–60%** (10–11s → 4–5s). Also enabled HTTP compression at zero infrastructure cost.
- **CI/CD:** Built GitLab CI/CD pipeline from scratch on own initiative, cutting deployment time from **5–8h to 40–60 min** (85%+ reduction), with automated test suites catching real production bugs.
- **Auth microservice:** Expanded an assigned login module into a centralised auth service for the entire organisation, serving **hundreds of users** across multiple applications.
- **Map component:** Designed Angular + Leaflet interactive map handling thousands of real-time assets with non-trivial lifecycle management.
- **Mentoring:** Onboarded an intern, building reusable backend and frontend shell templates with pre-configured security layers.

NestJS · Angular · Redis Stack · CouchDB · PostgreSQL · Python · Docker · GitLab CI/CD · Linux · REST APIs

Education

MSc in Computer Science and Technology — GPA 8.47/10 (ongoing)

Universidad Carlos III de Madrid

Ongoing
Madrid, Spain

BSc in Software Engineering — GPA 6.43/10

Universidad de Sevilla

2020 – 2025
Seville, Spain

Technical Skills

Stack	NestJS · Node.js · Angular · React/Next.js · ASP.NET · Java · Python · JavaScript/TypeScript
Data & Infra	PostgreSQL · MySQL · Redis Stack · CouchDB · Docker · GitLab CI/CD · Linux
Practices	Microservices · Distributed systems · Real-time apps · ETL · CI/CD · Automated testing · Agile

Languages

Spanish Native · English Advanced — B2 First (FCE), Cambridge Assessment English, June 2023