

Alvaro Rivas

Senior Software Engineer

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📍 Madrid, Spain

🏠 Open to relocation to Australia · Employer sponsorship required

SUMMARY

Senior Software Engineer with 5 years of experience building scalable web applications and distributed systems, specialising in JavaScript/TypeScript, React, microfrontends and Module Federation. Experienced across frontend architecture, backend services and cloud-native systems, complemented by a recently completed MSc in Artificial Intelligence.

EXPERIENCE

Senior Software Engineer

2022 - Present

Nextthink ↗

- Led the migration of **40+ microfrontends** from a custom architecture to **Module Federation**, improving maintainability, scalability, and deployment independence.
- Designed and implemented a **company-wide microfrontend testing strategy**, covering unit, integration, and contract testing.
- Optimized multiple **React** microfrontends, delivering up to a **70% performance improvement**.
- Migrated shared internal **NPM libraries to Module Federation**, reducing coupling between applications and improving modularity.
- Designed and developed **Kafka-based streaming APIs**, supporting the transition from synchronous workflows to a more event-driven architecture.
- Helped standardize CI/CD across the company by replacing multiple team-owned Jenkins instances with **reusable GitHub Actions workflows** designed to support projects across different languages and technology stacks.
- Led a large-scale **UI redesign** across shared components, complex compositions, and consuming applications, delivering the migration without functional regressions.
- Developed and maintained multiple **backend services** using **Java and Node.js**, covering both synchronous and asynchronous communication patterns.

Junior Full-stack Developer

2020 - 2021

Sotec Consulting ↗

- Developed frontend features for multiple web applications using **Angular**.
- Built cross-platform mobile applications from scratch for **Android and iOS** using **Ionic and Angular**.
- Developed and maintained **REST APIs and Oracle SQL databases** supporting backend application functionality.

EDUCATION

MSc in Artificial Intelligence ↗

2025 - 2026

Alfonso X el Sabio University - Master's Degree in Artificial Intelligence

Master's thesis: Built an AI-powered SRE agent using **LLMs, RAG, Kubernetes, Prometheus and runbooks** to diagnose incidents and generate contextual remediation guidance.

Software Engineering ↗

2017 - 2022

Rey Juan Carlos University of Madrid - Double Degree in Computer Engineering & Software Engineering

SKILLS

Software Engineering

JavaScript / TypeScript	AWS
React	Kubernetes
Microfrontends & Module Federation	Testing & TDD
Kafka & Event-Driven Architecture	CI/CD
Java / Spring Boot	Software Architecture

AI & Machine Learning

Machine Learning	RAG
Deep Learning	

LANGUAGES

Spanish	Native	French	Basic
English	Fluent		