Javier Costa Rosa

Tech Lead — Product Architecture, Backend Systems & Reliability

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Summary

Tech Lead with 8+ years of experience building and evolving backend-heavy products, turning ambiguous product needs into technical direction, reliable systems, and software teams can ship, operate, and evolve.

Experience

Tech Lead — Product Reliability & Architecture, Blue Trail Software Aug 2025 – present

Leading the technical evolution of a web crawling product used daily by thousands of customers.

- Improved reliability and reduced customer-reported issues through changes to architecture, observability, fault tolerance and execution consistency.
- Expanded product capabilities while maintaining stability and delivery pace.
- Introduced AI-assisted engineering workflows to improve delivery speed and long-term maintainability in a lean team.

Tech Lead — Product Engineering & Browser Extension, Blue Trail Software Nov 2024 – Aug 2025

Led a five-person team evolving a consent-management browser extension into a more robust product prepared for cross-browser expansion.

- Defined an architecture that balanced platform constraints, delivery speed and long-term maintainability.
- Worked with stakeholders to turn ambiguous business needs into clear technical direction and sustainable product decisions.

Tech Lead & Solutions Architect, Blue Trail Software Apr 2023 – Oct 2024

Designed and developed a healthcare automation platform that replaced spreadsheet- and email-based operational workflows.

- Owned system architecture, AWS infrastructure, data modelling and technology decisions end to end.
- Acted as the main technical counterpart for stakeholders and led the development team through delivery.

Senior Full Stack Engineer, Blue Trail Software Mar 2021 – Apr 2023

Contributed to the evolution of a monolithic platform into roughly ten services within a cross-functional engineering team.

- Introduced TypeScript and NestJS to standardize backend development and built shared libraries that reduced duplication across projects.
- Mentored junior engineers and launched weekly Tech Talks to strengthen knowledge sharing and engineering practices.

Full Stack Engineer — R&D, ITI — Instituto Tecnológico de Informática Feb 2018 – Mar 2021

Developed web applications and technical tools for national and European R&D projects across AI, IoT and blockchain.

- Worked across frontend and backend with Node.js, Python, Angular and Vue.
- Applied clean architecture practices and Docker-based workflows in projects with evolving requirements and experimental scope.

Education

Universitat Politècnica de València, MSc in Software Engineering, Formal Methods and Information Systems 2018 – 2020

Universitat Politècnica de València, BSc in Informatics Engineering 2014 – 2018

Skills

Engineering: Product architecture, backend systems, distributed systems, APIs, reliability, observability, fault tolerance, data modelling

Technologies: TypeScript, Node.js, NestJS, Python, AWS, Docker, Angular, Vue