



Juan Pablo Castro

Freelance Software Engineer | AI Product Engineer

Software Architect and Tech Lead with 8 years of experience building product-led systems with TypeScript, AWS and applied AI.

Spain · Remote

CONTACT

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Profile

I build digital and AI-enabled products end to end: understanding the problem, designing the product and the system, and carrying the implementation through to production.

Depth in cloud-native architecture on AWS with TypeScript — from domain design to infrastructure as code — and in applied AI: model integration, evaluations, guardrails and deterministic fallbacks.

Experience

JAN 2026 – PRESENT



Castro Solutions

Freelance Software Engineer & AI Product Engineer

Spain in remote

- Building digital products for clients and developing my own AI-enabled products, combining full-stack delivery, architecture and technical leadership.
- Shipped two products of my own: ChacharApp (local AI dictation for macOS, Whisper on the Apple Neural Engine) and Salturno (shift-rota calendar for iOS).
- Client delivery from problem definition to production: product discovery, full-stack TypeScript, AWS infrastructure and the operational work that keeps it running.
- AI engineering on both sides of the work: evals, guardrails and deterministic fallbacks in the products; spec-driven workflows and agentic harness design in the process.

TypeScript NestJS Next.js AWS Terraform PostgreSQL Swift · SwiftUI Claude Code

AUG 2022 – DEC 2025



Capgemini

Tech Lead & Software Architect

Valencia, Spain (Remote)

- Led the architecture and hands-on delivery of Fast Checkout, a product connecting e-commerce, shipping and payment flows for PostNL's Digital Lab.
- Translated ambiguous business and product requirements into system boundaries, technical flows and production-ready capabilities.
- Coordinated product, frontend, backend, plugin and platform stakeholders across multiple integrations, engaging directly with client decision-makers.
- Designed cloud-native TypeScript services and infrastructure on AWS: Terraform IaC, Azure DevOps CI/CD, autoscaling and queue-based workflows with end-to-end traceability.
- Led a team of 5 — mentoring, roadmap, prioritisation and quality gates — balancing delivery speed, security, maintainability and integration complexity. Hosted architecture talks in Capgemini's Architects department.

Terraform (AWS) Azure DevOps Docker NestJS Prisma ORM Next.js React Angular

[VIEW PROJECT →](#)

APR 2021 – JUL 2022



Tecon (Ekiba)

Full-Stack Developer

Parque Industrial del Elche, Alicante, Spain

- Full-stack design and development from scratch of GICA, the wildfire response management system for GEACAM (regional government of Castilla-La Mancha).
- Built the back-office to manage extinction units, shift changes and approvals, and to generate the daily reports (worked hours, mileage, overtime) feeding payroll and operations.
- Led requirements gathering and system design directly with the client.

Angular 2+ NestJS Express Node GitLab PLESK Bash Linux

[VIEW PROJECT →](#)

MAR 2020 – APR 2021



Cognizant

Programmer Analyst / Software Developer

Parque Tecnológico de Boecillo, Valladolid, Spain

- Functional analysis and development of web applications with a strong client focus.
- Used modern DevOps practices with continuous integration, following the Scrum framework.

Angular 2+ TypeScript RxJS HTML5 SCSS Jasmine Spring (Java) Git Bitbucket JIRA

TECHNOLOGIES

Frontend:
Angular, Next.js, React · Unit testing: Jasmine-Karma, JEST

Backend:
Node.js, NestJS, Java, Python · E2E testing: Playwright

Infrastructure:
Terraform, AWS (API Gateway, Cognito, ELB, ECS, ECR), Azure DevOps, Docker

Applied AI:
LLM integration, speech-to-text (Whisper/CoreML), local models (MLX), RAG, agents, evals & guardrails

CERTIFICATIONS



AWS Certified Solutions Architect — Associate
[VERIFY ON CREDLY ↗](#)

LANGUAGES

Spanish (native)
English (professional)

WORKING FIELDS EXPERIENCE

Banking & financial services (credit card and EU banks)

Public sector (forest fire prevention and management)

Custom software for mid-sized businesses

Innovation projects in the postal/parcel sector (Dutch client)

SOFT SKILLS

Collaborative communicator and team leader: proactive problem solver, fostering an environment where creativity, efficiency and continuous learning go hand in hand.

I prioritize building strong relationships, encouraging open dialogue, and creating a space where everyone feels valued and empowered to contribute.

AWARDS AND HONOURS

Most Innovative Project — HackForGood 2018 (Salamanca)
[Walkmehome](#)
€500

Best Business Project — Cultural, Social or Humanistic Entrepreneurship
[Yodono](#)
Iniciativa Campus Emprendedor (T-CUE), Castilla y León
€6,000

Best Business Project
[Yodono](#)
Cátedra de Emprendedores de la USAL (Salamanca)
€3,000

