

# Ruben Batanero

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Product Engineer and Software Engineer with 4+ years of experience engineering data-driven web applications and scalable infrastructure. Proven track record of bridging technical execution with product strategy, leveraging agentic AI workflows to accelerate feature delivery and drive user adoption in complex B2B environments.

## Skills

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**Engineering & Architecture:** TypeScript, Python, C++, Next.js, Vue 3, Node.js, Supabase, PostgreSQL, TimescaleDB, Docker, CI/CD, FastAPI

**AI & Automation:** n8n, Web Scraping (Crawl4AI), Claude Code, Codex, Gemini, Google Antigravity, Claude Design

**Product Engineering:** Technical Architecture, Agile/Scrum, User Acceptance Testing (UAT), Performance Optimization

## Experience

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**Product Engineer | Technical Product Owner**, UPC – Castelldefels, Spain Aug 2023 – Feb 2026

- Engineered the 0-to-1 development of the Dynamo3 Vue 3 web application to replace a legacy CLI, establishing the foundational architecture and successfully scaling the platform to support 153 global B2B users, including Boeing and Eurocontrol.
- Streamlined the product experience, reducing new user onboarding time from 4 hours to 10 minutes by translating complex aerospace research models into an intuitive, scalable web interface.
- Architected technical solutions and systematically eliminated inherited technical debt from the CLI models, stabilizing the core MVP for public release while managing requirements for a 4-person engineering team.

**Software Engineer | Aerospace**, UPC – Castelldefels, Spain Nov 2022 – Aug 2023

- Optimized a legacy C++ simulation engine and meteorological data processing pipeline, delivering 30% faster simulation runtimes and improving overall system stability for end-users.
- Engineered automated post-processing tools using Python and KML to transform raw simulation data into intuitive visual formats, streamlining result validation for the research team.

**Embedded Software Engineer**, Giesecke+Devrient – El Prat, Spain *Internship* Nov 2021 – Apr 2022

- Implemented rigorous software testing protocols and CI/CD workflows within an Agile/Scrum team of 10 to optimize sprint delivery cycles.
- Developed low-level firmware modules integrating cryptographic libraries for enterprise clients.

**AI Simulation Engineer | Aerodynamics Engineer**, VFT – Vilanova i la Geltru, Spain *Part-time* Nov 2019 – Sept 2022

- Developed a data-driven Decision Support Tool using Neural Networks and Genetic Algorithms to validate aerodynamic designs and reduce physical prototyping cycles.

## Projects

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**Veripadel** veripadel.com

- Architected the data infrastructure for a padel equipment price-comparison platform, designed a layered ingestion pipeline (deterministic parsing to AI-fallback) to monitor 4,000+ endpoints across 32 e-commerce sites reliably.
- Designed a multi-tier matching algorithm utilizing EAN validation as layer 0 and confidence-based scoring to accurately map marketplace offers to a canonical product database.

**Gluten Free Map** glutenfreemap.es

- Built and scaled a geospatial web application to over 10,000 verified locations using Next.js and Supabase, achieving 400+ Monthly Active Users (MAU).

## Education

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**EETAC-UPC** – Double Degree in Aerospace Systems & Telecommunication Systems Engineering Sept 2019 – Sept 2022

**Certifications:** Agile Development & Scrum (IBM) | AI Product Management (Duke University)