IGNACIO BALASCH SOLA

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ABOUT ME

Industrial engineer with experience in data engineering, cloud systems, and applied ML. I work closely with AI tools — they're part of how I learn and how I build. I'm interested in where AI agents are going and the kind of products they'll make possible.

LANGUAGES

Spanish (Native)   English (Native)

EDUCATION

B.Eng. Industrial Engineering
Pontifical Univ. of Comillas (ICAI)
📅 2019 – 2025   📍 Madrid

Entrepreneurship Bootcamp
Pontifical Univ. of Comillas
📅 2022–2024   📍 Madrid

CS50
HarvardX
📅 2024 – 2025   📍 Online

CS50 SQL
HarvardX
📅 2024 – 2025   📍 Online

SKILLS

Core

Skill	Level
Python	●●●●○
SQL	●●●●○

Data Engineering & ML

Skill	Level
Pandas	●●●●○
Scikit-learn	●●●●○

AWS Serverless

Skill	Level
Redshift	●●●●○
Lambda	●●●●○
S3	●●●●○
Step Functions	●●●○○
EventBridge	●●●○○

Optimization

Skill	Level
Pyomo	●●●●○

Data Visualization

Skill	Level
Tableau	●●●●○
QuickSight	●●●●○

AI Agent Orchestration

Skill	Level
Cursor	●●●●○
Codex	●●●●○
Claude Code	●●●●○
OpenClaw	●●●●○

Embedding AI in Systems

Skill	Level
REST API integration	●●●●○
Embeddings	●●●○○

DevOps

Skill	Level
Git	●●●●○
Docker	●●●○○
Kubernetes	●●●○○

BUILDING TOWARDS

Skill	current level		Skill	current level
Terraform (IaC)	●●○○○		Docker	●●●○○
CI/CD Pipelines	●●○○○		Kubernetes	●●●○○

EXPERIENCE

Software Development Engineer Intern
Amazon
📅 Sep 2025 – Feb 2026   📍 Madrid, Spain

- Designed and built a system that monitors warehouse operations across a European robotized network in real time, replacing a manual process that consumed hundreds of specialist-hours daily.
- Serverless pipeline (Lambda, Step Functions, EventBridge, Redshift) with infrastructure as code (AWS CDK, co-developed with a senior engineer).

Data & Analytics Intern — Undergraduate Thesis
Cigna Healthcare
📅 Sep 2024 – Jul 2025   📍 Madrid, Spain

- Built the analytics layer for the individual policyholder portfolio: ETL pipelines, Tableau dashboards, and customer segmentation. Trained ML models (Scikit-learn, XGBoost) for cost prediction and benchmarked them against actuarial pricing.

Data Intern
Wequity (ESG AI Startup)
📅 Jul – Oct 2023   📍 Brussels, Belgium

- First real exposure to building software. Learned Docker, Kubernetes, and API development. Built a Google Sheets integration that called OpenAI through a custom REST API.