

# Marcos Hornero

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## Experience

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- Senior Software Engineer**, Freematica – A Coruña, Spain Jan 2025 – Present
- Delivered \$150K+ annual infrastructure cost savings by architecting custom code transpiler solution to modernize legacy enterprise ERP system without full manual rewrite
  - Established complete staging infrastructure and CI/CD pipelines from scratch with automated testing, enabling continuous deployment where none existed previously
  - Led technical design and implementation of transpiler converting legacy codebase to modern architecture while maintaining business logic integrity
- Technical Lead**, Lambdaloopers – A Coruña, Spain Jan 2023 – Dec 2024
- Engineered complete visual programming platform for educational robotics deployed to hundreds of schools across Spain, including block-based IDE, execution engine, and Bluetooth/USB protocols
  - Architected GCP-based cloud infrastructure supporting ML-powered image recognition and Web/iOS application for robotics control and block programming
  - Managed client relationships and cross-functional development teams using Agile methodologies to deliver 5+ enterprise projects on schedule
- Software Engineer**, Lambdaloopers – A Coruña, Spain Jan 2021 – Dec 2022
- Achieved 300%+ performance improvement in data integration system by designing and implementing algorithmic optimizations for high-volume processing pipeline
  - Reduced cloud infrastructure costs by 42% through comprehensive modernization initiative involving containerization, auto-scaling, and resource optimization
  - Built full-stack applications across React, Node.js, Django and Laravel for device monitoring, health, and cybersecurity sectors
- Junior Software Engineer**, Atos – A Coruña, Spain Jan 2019 – Dec 2020
- Developed REST APIs and Angular frontend components integrated with Spring Boot and Oracle/MySQL databases for enterprise applications
  - Created reusable entity management framework reducing development time by 30% and decreasing bug reports through standardized CRUD operations
  - Mentored 3 junior developers on best practices for Angular, Spring Boot, and database design while maintaining technical documentation

## Skills

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**Languages:** C#, Java, Python, PHP, JavaScript, GoLang

**Frameworks:** .NET, Spring Boot, Django, FastAPI, Laravel, Node.js, React, Angular

**Cloud/Infra:** Docker, Git, CI/CD, Automated Testing, AWS, GCP, Azure

**Data:** SQL (MySQL, PostgreSQL, Oracle), MongoDB, Redis, RabbitMQ, Pub/Sub

## Education

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**Universitat Oberta de Catalunya** – Bachelor's in Computer Software Engineering 2025  
Matricula de Honor (Highest Distinction, 9.5/10) on Final Degree Project

**CPR Afundacion** – Higher Vocational Training in Cross-platform Application Development 2019