

Diego Rodrigo Verdugo

Software Engineer

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Profiles

 **LinkedIn**

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Summary

Senior Software Engineer with 6+ years of experience and a **strong product mindset**. I am a **communication-oriented developer** who loves talking directly with stakeholders to understand business and user needs. Experienced **technical leader** with a track record of **mentoring junior engineers**, establishing clear best practices (**Hexagonal, DDD**), and **leading end-to-end features**. I value honest communication and collaboration, ensuring that everything we build makes sense both **technically and commercially**.

Projects

AfterChapter

- **Product:** Cross-platform book journal app for readers to track progress, manage libraries, and set reading goals.
- **Stack:** High-performance **Python (FastAPI)** backend with **PostgreSQL**, and **React Native** for the mobile client. Grafana for observability.

<https://beta.afterchapter.es>

Experience

Freelance

September 2026 - Present

Welltech

September 2025 - June 2026

Senior Software Engineer

Role ended due to Spain engineering site closure & company restructuring.

Tech stack: Python 3.13 with FastAPI / PostgreSQL / AWS Serverless.

- **Architectural Migration & Mentorship:** Led the transition to **Hexagonal Architecture**, documenting trade-offs and mentoring the team to decouple core logic from infrastructure. By shifting from a heavy reliance on slow **API-driven Acceptance Tests** to a balanced **Testing Pyramid (Unit & Integration tests)**, we increased test coverage while reducing test execution time and manual QA efforts by 80%.
- **Internal tools and UX (React/Python):** Proactively designed and implemented an end-to-end backoffice feature to identify and upload missing translations, **accelerating** content localization by **500%**.
- **AI Workflow Contribution:** Migrated **AI Agent workflows** into a specialized **harness**, reducing prompt iterations by 35% and manual corrections by 70% to significantly improve response quality and team velocity.

Cobee

March 2024 - September 2025

Senior Software Engineer, Payments Team

Tech stack: NodeJs (typescript) / MongoDB / PostgreSQL / ClickHouse / AWS.

- **Payment Performance Optimization:** Reduced card transaction latency by ~80% by using profiling tools to identify bottlenecks and optimizing SQL queries.
- **Financial Product Impact (Floating):** Led the "Floating" initiative to aggregate and rebalance idle customer funds for investment, generating **€300k ARR** with scalable growth as the customer base expands.
- **Scalable Data Migration & Decoupling:** Developed asynchronous, **SQS-based** migration workers to move **400k users** from Pluxee to Cobee in managed chunks, ensuring system stability while decoupling the process from the monolith.

Experience

Dezzai
Senior Backend Developer
Tech stack: Python with Starlette / mongoDB / AWS ec2.

April 2022 - March 2024

- **Product Ownership (Querix):** Engineered the initial **Proof of Concept** (PoC) for "Querix" independently and after its market success, **led a 5-person cross-functional team** to scale it into the **company's flagship product**.
- **AI models integration:** Integrated LLMs and proprietary AI models into backend services, abstracting complex inference logic into simple and scalable domain concepts.
- **Mentored** junior developers through code reviews and architecture workshops, establishing best practices in Python/Starlette and defining their growth path.

NielsenIQ
Software Engineer

February 2021 - April 2022

- Integrated **AI model** for detecting products on shelf photographs into an **Android SDK**.
- **Scaled a high-throughput watermarking pipeline** for billion-row datasets, migrating architecture from Pandas to Vaex and PySpark to overcome RAM limits and enable fast, on-demand downloads.
- **Built an R&D data resolution prototype** using Elasticsearch fuzzy search and RoBERTa vector embeddings to benchmark entity matching across disparate databases.
- Developed a **microservice** to transfer data between teams using **REST** and **gRPC**.

RDNest
Software Engineer

February 2020 - January 2021

Tech Stack: C++, Java (Spring), Raspberry Pi, Linux, OpenCV / Computer Vision.

- **IoT & Embedded Systems:** Developed C++ software for Raspberry Pi to automate weight tracking at recycling plants, interfacing with industrial scales and managing peripheral hardware like traffic lights and lighting systems.
- **R&D & Hardware Evaluation:** Conducted comparative analysis of IP cameras under diverse environmental conditions (day, night, rain) and led the integration of alternative scale models for new plant deployments.
- **Computer Vision & Backend:** Performed fine-tuning on ALPR (Automatic License Plate Recognition) models to improve truck identification accuracy, and contributed to the Java/Spring backend to process vehicle data.

Education

University of Valladolid
Computer Engineering

Bachelor's degree in Computer Engineering
September 2016 - May 2020

Languages

Spanish
Native/Bilingual
●●●●●

English
Fluent
●●●●○

Skills

Languages
Python, JavaScript, TypeScript, Java, C++

Infrastructure & Tools
PostgreSQL, MongoDB, Pytest, Claude Code, GitHub Copilot, Elasticsearch, Docker, RabbitMQ, S3, Git, Qdrant, Pinecone, Kafka, Kubernetes, Datadog, Grafana, EPPO

Architecture & Best Practices
Domain-Driven Design (DDD), Hexagonal Architecture, SOLID, TDD, Event-Driven Design