

Luis Enrique Pina Herce

Software Engineer · CET / CEST

I build fast, observable TypeScript web products, from data flows to polished interfaces.

Five years building software for hospitality, finance, energy, and data teams, mostly where back ends and interfaces meet. I write strict TypeScript, prefer clear contracts over defensive comments, and design systems that stay maintainable as they grow.

02 Where I have worked

APR 2025

Software Engineer · hotelgest

→ PRESENT

ESCALDES-ENGORDANY, ANDORRA

Full-stack development on hotelgest's PMS, a hotel management platform used by independent hotels.

- Implemented product features on the front end with React.
- Built APIs and business logic with TypeScript and NestJS.
- Worked with typed, clean, reviewed code to keep the codebase maintainable.

TypeScript

Node.js

React

PostgreSQL

OCT 2024

Software Engineer · Andbank

→ APR 2025

ANDORRA

Developed banking applications in a regulated environment, mainly focused on front-end and mobile apps.

- Fixed and implemented features in web applications with React.
- Developed and maintained mobile applications with Xamarin and .NET.
- Worked under banking-sector review, change-control, and quality processes.

TypeScript

Node.js

SQL

AUG 2023

Software Manager · EOSOL

→ OCT 2024

MUTILVA, NAVARRE, SPAIN

Led the data science team building scalable software for big-data visualization and querying.

- Designed an architecture based on Parquet files in S3, AWS Glue, and AWS Athena to query data directly on the data lake.
- Used PostgreSQL for metadata and built interfaces with AngularJS and React for internal resource administration.
- Coordinated the team technically, defined good practices, and kept a focus on maintainable, typed, reviewed code.

TypeScript

NestJS

Next.js

PostgreSQL

JUL 2022

→ AUG 2023

Software Developer · EOSOL

NAVARRRE, SPAIN

Built the web interface that let the civil engineering team use the earthworks optimization tool.

- Developed the front end with Flask to configure runs and inspect optimization results.
- Modeled and persisted data with MongoDB for projects, configurations, and results.
- Turned a technical tool into an application usable by teams without software specialization.

Node.js NestJS React TypeScript

MAR 2021

→ JUN 2022

Data Engineer · EOSOL

NAVARRRE, SPAIN

Developed optimization tools and data pipelines for civil engineering and energy operations teams.

- Built a Python CLI tool to minimize earthworks when placing piles for solar parks.
- Used threads, processes, and Google OR-Tools to solve manufacturer and terrain constraints with optimization criteria.
- Designed Airflow ETLs for extracting, processing, and loading meteorological data.

Python SQL Kafka MongoDB

JUL 2020

→ DEC 2020

Research Assistant · Universidad Pública de Navarra

NAVARRRE, SPAIN

Research on big-data processing infrastructure and storage migration.

- Built a Hortonworks-based pipeline with Sqoop, Hive, and Kafka.
- Restructured a NoSQL database and migrated it to MySQL.
- Wrote a backend in Express.js to expose the new schema.

Hortonworks Sqoop Hive Kafka MongoDB MySQL Express

03 **Tools I use most**

Languages

04

TypeScript · JavaScript · Python · SQL

Frontend

05

React · Next.js · Tailwind CSS · shadcn/ui · React Query

Backend

05

Node.js · NestJS · Express · tRPC · Zod

Data

06

PostgreSQL · MySQL · MongoDB · Kafka · Hive · Sqoop

Cloud & Architecture

12

Docker · Terraform · AWS Lambda · AWS SAM · AWS ECS · AWS Glue · AWS Athena · Step Functions · SQS · S3 · SageMaker · GitHub Actions

Practice

04

Spec-driven development · Type-first design · Cloud architecture design · Code review

04 **Selected projects**

apidex apidex.mdbep.dev

Local-first OpenAPI playground. Upload a JSON or YAML specification and get a clean, navigable view of every operation; share specifications through S3 + DynamoDB, optionally protected by a password.

- Next.js
- TypeScript
- tRPC
- Zod
- Tailwind
- shadcn/ui
- AWS S3
- DynamoDB

andllar andllar.com

Real-estate marketplace for Andorra. Listings, agency promotions, and map-based search with full multilingual support across English, Spanish, Catalan, and French.

- Next.js
- TypeScript
- Prisma
- Supabase
- Mapbox
- Tailwind
- React Query
- AWS S3

Internal admin suite

Custom internal admin and ERP suite. Invoicing with PDF generation and email delivery, expense tracking, CRM (leads, partners, investors), contacts, role-based access, and dashboards on a type-safe tRPC + Prisma stack.

- Next.js
- TypeScript
- tRPC
- Prisma
- MongoDB
- Zod
- Tailwind
- React PDF
- better-auth
- AWS S3

Sowify Global Solutions sowifyglobalsolutions.com/es

Multilingual corporate landing page for Sowify. It presents the agrotech value proposition, Luca, services, and legal content through localized routes, Next.js metadata-driven SEO copy, polished animations, and visual assets served from Luca's data domain.

- Next.js
- TypeScript
- next-intl
- Tailwind CSS
- shadcn/ui
- Framer Motion
- Radix UI
- SEO metadata

This portfolio mdbep.dev

The very site you are reading, built entirely through spec-driven development. Each feature started as a written spec defining outcomes, contracts, and acceptance checks before any code, on a type-safe Next.js + tRPC + Zod stack with bilingual routing and purposeful motion.

- Next.js
- TypeScript
- tRPC
- Zod
- Tailwind CSS
- shadcn/ui
- next-intl
- Motion

05 **Education and languages**

MSc Engineering & Data Science

Universidad Nacional

2020 - 2022

BEng Computer Engineering

Universidad Pública de Navarra

2015 - 2020

06 **Languages**

Spanish

NATIVE

English

INTERMEDIATE