

JORDI MARÇAL POY

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PROFESSIONAL PROFILE

Backend developer with over 8 years of experience designing REST APIs and microservices, working with Java (Spring Boot) and Python, and building automation and testing tools. Also experienced in technology modernization projects with Node.js and TypeScript. I apply SOLID, Clean Code and design patterns in code reviews and mentor junior developers (10 years of experience in team management). Trained in Data Science (Master's degree).

TECHNICAL SKILLS

Java: Java 11 & 21, Spring Boot 2/3, Play Framework, sbt, Spring-Cloud, Reactor, CompletableFuture, Lombok, layer and hexagonal architectures

Python: FastAPI (async), Flask, SQLAlchemy (AsyncSession), PyMongo, Pydantic, Click, Jinja2, Poetry, pytest, mypy (strict), ruff, black, pre-commit

Node / TypeScript: Node.js 24, TypeScript 4.9+, JavaScript ES6+, Serverless Framework, AWS Lambda, Jest

APIs & data: RESTful API design, OpenAPI / Swagger v2-v3, ORM (SQLAlchemy, Hibernate, Spring-JPA), MongoDB, MySQL, Redis, Elasticsearch

Architecture: Microservices, SOLID principles, Clean Code (KISS, DRY, YAGNI), separation of concerns (SoC), design patterns, reactive, concurrent and async/await programming

DevOps: Git, GitHub / GitLab, CI/CD (Jenkins, GitHub Actions), Docker, Kubernetes, Ansible, RabbitMQ, Scrum, Kanban

Quality & testing: TDD, unit and end-to-end testing (pytest, JUnit 5, Mockito, coverage), code reviews in Pull Requests, SonarQube / SonarLint

EXPERIENCE

Backend Developer (Java/Python)

May 2022 – Present

AXPE CONSULTING — Mapfre

Backend Analyst/Developer (API Modernization)

January – May 2026

Analysis and consolidation of the modernization of 39 corporate Mapfre APIs onto Node.js 24, aiming to homogenize the tech stack and reduce technical debt across distributed services.

- Audited the real state of each repository: validation of feature branches, merges, open PRs and change history, to pin down each service's starting point with precision.
- Executed and tracked the migration over a Node.js / Serverless Framework / AWS SDK v3 / AWS Lambda environment, with Git version control and integration flows across multiple release branches.
- Delivered a unified view of progress, documented techniques per service type and reusable traceability for reporting and decision-making, strengthening API governance.

Technologies:

Git (Git Flow + Conventional commits) · Node.js 24 · TypeScript 4.9+ · JavaScript ES6+ · Serverless Framework · AWS (Lambda, CDK, CloudFormation, API Gateway, CloudWatch) · AWS SDK v3 · Jest 27+/29+ · ESLint · Prettier · Python · Bash/Zsh

Telefónica Kernel — Open Gateway · opengateway.telefonica.com

- Design and construction of REST adapter microservices exposing the Open Gateway APIs per country on top of the internal Kernel API.
- Author and maintainer of a suite of 12+ Python CLI tools (Poetry, Docker image) to operate ~90 adapters across 4 countries and 5-6 environments each.
- Reactive and concurrent programming with Reactor (Spring-Cloud) and CompletableFuture (Play Framework).
- Automated generation of documentation and sequence diagrams for every microservice, with End-to-End tests and traces in Elasticsearch, integrated into CI/CD pipelines (Jenkins).

- Adapted the OpenAPI code generator (compatible with Swagger v2 & v3) to produce clients and servers for Play Framework, Spring Boot and Kotlin.
- Automatic mock generator in Next.js with TypeScript, Python and Docker.
- Code reviews in Pull Requests enforcing SOLID, Clean Code (KISS, DRY, YAGNI) and design patterns; mentoring junior developers.

Technologies: Java 11/21, Node.js, TypeScript, Play, sbt, Spring Boot 3, Spring-Cloud, Reactor, Python 3.11, Poetry, Pydantic, Click, Kubernetes SDK, Docker SDK, Ansible, Jenkins, Elasticsearch, Kibana, Redis, MySQL, Hibernate, Spring-JPA, Swagger/OpenAPI v2-v3, JUnit 5, Mockito, Git/GitHub, SonarLint, Scrum, Kanban.

Java Developer

Nov 2020 – May 2022

Zitro Laboratory (videojuegos / casinos online) · zitrogames.com

- Maintenance and evolution of the Java betting-engine server, Backoffice and integrations with real-money online casinos.
- Implemented Apple Sign-In server-to-server; integrated historical data into AWS Snowflake + Cassandra; integrated OneSignal for commercial profiling.
- Architecture analysis and design of new features; operations scripting in Python and Bash.

Technologies: Java 11-13, Spring Boot 2.4, microservices, MongoDB, Redis, Cassandra, MySQL, Hibernate, Spring-JPA, REST (FeignClient), RabbitMQ, Swagger 3, JUnit 5, Mockito, Python, GitLab CI, Docker, Kubernetes, Jenkins, SonarQube, Scrum, Kanban.

Java + JS Developer

May 2017 – November 2020

Attendre S.L. (local-government management software) · attend-solutions.com

- Evolution of Attend®, a ticketing, inventory, cost and project management system (Web + mobile) for city councils and companies.
- Designed and implemented the License Manager (Spring Boot 2.3 + REST), an online updater app (REST) and the JavaFX installer.
- MS-SQL to MySQL data migration and log analysis with Python; accessible web frontend (Play Framework) and Android apps (4.4-10).

Technologies: Java 7-8, Spring Boot 2.3, JEE Stripes, Hibernate, MS-SQL Server, Oracle, MySQL, REST (Jersey), SOAP, JSP/JS/CSS/Ajax, Jenkins CI, Git/Subversion, JUnit, Appium, Python.

PERSONAL PROJECTS (PYTHON)

- **Async REST API with FastAPI + SQLAlchemy** (URL shortener): async/await endpoints with SQLAlchemy AsyncSession over aiosqlite, layer architecture (routers / services / CRUD), automatic OpenAPI documentation (Swagger UI / ReDoc) and tests with pytest. github.com/jordimarsal
- **md-mermaid-pdf (open source, MIT)** CLI that renders Markdown with Mermaid diagrams to PDF. Built with TDD (pytest, published coverage on Codecov), mypy strict, ruff, black, pre-commit and CI with GitHub Actions; dependency-injection architecture. github.com/jordimarsal/md-mermaid-pdf
- **Rest360 (MSc thesis, Data Science)** REST API in Flask with authentication and a DAO pattern over MongoDB (PyMongo) for a banking domain (customers, transactions, cards, loans). openaccess.uoc.edu/webapps/o2/handle/10609/95366
- **Data analysis & ML:** NLP with NLTK (LDA, sentiment analysis), deep learning with PyTorch (AICrowd challenge), pandas and scikit-learn.

EDUCATION

2017 – 2019 · MSc in Data Science — UOC (Universitat Oberta de Catalunya)

2012 – 2017 · BSc in Computer Engineering — UOC

1991 – 1994 · Technical Industrial Engineering (Chemistry) — UPC

ADDITIONAL TRAINING

2019 · Data Analytics Bootcamp — Ironhack (part-time)

2019 · Deep Learning Technician — UOC

2018 · Spring Framework & Spring Boot Course — Udemy

LANGUAGES

Catalan and Spanish (native) · French (B2) · English (Fluent)