

ARTURO BARBERO PÉREZ

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BACKEND SOFTWARE ENGINEER

I am a Backend Software Engineer with nearly **5 years of professional experience** in designing, developing, and maintaining backend systems using **Java** and **Python**. I have contributed to a variety of projects, including those involving **cloud platforms (AWS, GCP)** and distributed systems that demand scalability, reliability, and high performance. I'm eager to embrace new challenges and continue growing my career by joining a project where I can keep learning, broaden my skill set, and deliver value and excellence to the team.

SKILLS

- **Programming Languages:** Java, Python, JavaScript
 - **Frameworks & Libraries:** Spring (Boot, Cloud, Data), Hibernate, Django, Flask, Mockito, Unittest, JUnit
 - **Databases:** MySQL, DynamoDB, MongoDB, Redis, Neo4j, ElasticSearch
 - **Tools & DevOps:** AWS, GCP, Docker, Kubernetes, Git, GitHub, Bitbucket, Bamboo, GitHub Actions, SonarQube, Linux, Monitoring (Splunk, X-Ray, Grafana)
 - **Architecture:** Microservices, Serverless, Messaging (SNS/SQS), CI/CD, Event-Driven Architecture,DDD, Hexagonal Architecture, API First (OpenAPI), REST API, gRPC
 - **Soft Skills:** Problem Solving, Adaptability, Communication Skills, Continuous Learning, Proactive Attitude
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WORK EXPERIENCE

LaPalmaRP (GTA 5 Roleplay Community)
Freelance Software Engineer

August 2024 - March 2025 (7m)
Madrid, Spain (Remote)

Worked as a freelance engineer for a community with over 21,000 members, optimizing both backend systems and community management tools.

- **Developed custom Discord bots** with **Python**, enhancing community interaction and automating server management to boost engagement.
- **Designed and launched a custom website** for a subcommunity (100+ daily users) using **Django** and **ReactJS**.
- **Built CI/CD pipelines with GitHub Actions and Docker**, automating deployments in VPS environments and improving efficiency.

Openbank (Santander Group)
Backend Engineer

October 2020 - October 2024 (4y)
Madrid, Spain (Remote)

Worked in the IT Risk Management Department as a Backend Engineer for Openbank: the largest fully digital bank in Europe, with over 1.700.000 customers around the world.

- **Designed, developed, tested, deployed, documented, and led a technical migration** from a **Python** serverless architecture to **Java** microservice, (Spring Framework, Spring Cloud) on **AWS** (Lambda, S3, DynamoDB, CloudWatch, ECS, X-Ray). **The service response time was 3 times faster**. Released to production in November 2022.
- **Designed, developed, tested and documented** a new microservice using **Java** (Spring, Mockito), **Design Patterns** (Factory Method, Rules, Facade) and **AWS** (S3, DynamoDB, CloudWatch, ECS) to make decisions on payments for a "Buy Now, Pay Later" project in Netherlands. Deployed in production in October 2021 and **scaled in 2 months** to operate in Germany and Spain.
- Worked in **Python** with an **event-driven architecture** using a **message queue (AWS SQS)**, and developed a REST API following an **API-first** approach using **OpenAPI**. The system was built using **hexagonal architecture** and **Domain-Driven Design (DDD)** to retrieve customer information, classify their debt status, and make business decisions based on it.

- **Deployed** more than 23 microservices to AWS (~80% of the Risk & Compliance's distributed architecture) using **CI/CD** tools (Docker, Bamboo, Harness) for several countries in 4 different environments (DEV, QA, STG, PROD).


Director 11
Backend Engineer

June 2019 - August 2019 (3m)
Madrid, Spain (On Site)

SaaS platform which centralizes all the data belonging to a football club so that customers are able to increase efficiency in decision-making.

- **Developed and helped design a completely new module:** "Maintenance", using **Java** (Spring Framework, Hibernate) and **MySQL**. Used **Design Patterns** (Adapter, DAO) and followed the MVC architecture. The feature was launched at the end of August.

PROJECTS

Distributed gRPC System in Kubernetes  [Link](#) **April 2025**

Designed and deployed a **gRPC-based microservices architecture** using **Docker and Kubernetes**. Implemented inter-service communication, containerization, and orchestration with Minikube. Lang: **Python**

Concurrent Server with Sockets  [Link](#) **August 2022**

Project to learn how to **maximize throughput** in data processing using **profiling, concurrent programming**, and **sockets**. Achieves a throughput of 2 million of data processed in 25 seconds (80.000 data/sec). Lang: **Java**

Video Facial Detection System  [Link](#) **September 2019 - September 2020**

System based on **AI** (Deep Learning) which analyzes videos and finds faces with very unfavorable conditions. **Designed, developed and trained 6 different deep neural networks using Python**, TensorFlow API and Google Cloud (GCP), which detect faces in real-time with an accuracy of 75%. Trained using a data set with 32.000 images.

Voice Assistant for Spotify  [Link](#) **July 2020 - December 2020**

Desktop application written in **Python** that uses **AI** (NLP - STT, TTS) and **Spotify's API** to control a Spotify account, including playing music, managing playlists, adjusting volume, and more.

EDUCATION

MIT Profesional Education **2021 - 2021**
Online Program, Cloud and DevOps

- Hands-on experience on Docker, CI/CD pipelines, AWS, Serverless

Universidad Complutense de Madrid **2016 - 2020**
BSc - Computer Science and Engineering

- **Deep Learning-based Thesis** graded with honors.
- Outstanding grades in: Cloud Computing (**AWS, GCP**), Machine Learning and Big Data, Advanced databases and NoSQL databases (**MongoDB, Redis, ElasticSearch, Graph Databases**).

CERTIFICATIONS

- **Engineering Practices for Building Quality Software** - Coursera (18h).
- **Parallel and concurrent programming with Java** - LinkedIn Learning (4h).
- **Functional Programming with Java** - LinkedIn Learning (3h)
- **Building Web Applications in Django** - Coursera (12h).

LANGUAGES

- **Spanish** - Native speaker | **English** - Upper Intermediate (B2+) | **Italian** - Intermediate (B1)