

Álvaro Puertas Puñal

PERSONAL STATEMENT

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From an early age, I've always been deeply interested in computing. It was my dad, introducing me to the computer systems at his workplace in a bank that first sparked this interest. I can always remember the feeling of wanting to know just how computers worked, why they worked and what else they could do. I remember when my father bought a Spectrum 48K in 1982, when I was 6, and we started to develop a submarine game in Basic.

In Santander, where I lived when I was young, there wasn't an IT degree, and I started studying a Geography degree which could have potentially given me many job opportunities. However, when I graduated there wasn't any work available. In 1998 I started my secondary studies in IT, in which I achieved a first degree with honors. Later in 2000 I started my professional career in IT in a company that belonged to IBM in Madrid.

Working in IT has given me more than 20 years of professional experience, for service companies, consultancies, end customers, in different sectors, public, private, energy, telecommunications, tourism, aeronautics and banking.

My work has always been oriented to the most technical part, but I have also managed work teams, becoming head of development, managing more than 20 people, and I feel very comfortable in a role in which I can communicate with all the stakeholders since I like to know all the points of view of a project.

I am a very sporty person, throughout my life, I have practiced sports and the last 15 years I have been doing athletics, running more than 25 marathons around the world. I also like to run ultra-marathons finishing self-sufficiency races like Marathon des Sables in the Sahara Desert, Fire and Ice in Iceland, and other ultra-races in adverse weather conditions. For me, living outside the comfort zone is something normal, exactly like my job in IT since you must be constantly learning and adapting so as not to be left behind.

WORK EXPERIENCE

OCTOBER 2023 - CURRENTLY: **SOLUTION ARCHITECT** / KNOWMAD MOOD, MADRID

Business or Sector: IT Consultancy

- **TIREA.**

TIREA is a company specializing in providing core insurance products and solutions. In this role, I am focused on the modernization of legacy systems within the insurance domain. A key aspect of this project involves leveraging generative AI tools, specifically GitHub Copilot, to enhance development efficiency, improve code quality, and accelerate the modernization process

- **MAPFRE MALTA.**

As the technical lead and solutions architect for the Mapfre Malta project, I worked on-site with the client to design and implement AS-IS and TO-BE architecture assessments. Beyond leading the technical aspects, I leveraged my insurance industry expertise to shape a corporate architecture tailored to meet strategic objectives and operational demands.

- **SANTA LUCIA SEGUROS.**

Government of Enterprise Architecture (**TOGAF**). Analyze, define, and design solutions architectures core services. Define the model, patterns, standards of software development and code control. Configuration management of environments. Maintenance of WIKI Architecture Standards Technical and Functional expert support.

Technology: Cloud Platform: Azure, Best Practices: Scrum, User Story, Kanban, Backend: Java 17, Microservices in SpringBoot2, Spring Framework, REST, Apache Camel, RedHat Fuse, JMS: Kafka, Security: OAuth2, Monitoring, tracing and metrics solutions with stack ELK, Prometheus, Graphana, CI/CD: Sonar, Git, GitHub, ArgoCD, Dependencies and artefacts: Maven, Design Patterns, SOLID, API First, Swagger Hub.

SEPTEMBER 2021 - OCTOBER 2023: **SOLUTION ARCHITECT** / SMALL WORLD FINANCIAL SERVICES, LONDON

Business or Sector: Financial Services

Government of Enterprise Architecture (**TOGAF**). Analyze, define, and design solutions architectures core services. Define the model, patterns, and standards of software development and code control Manage Continuous Integration System. Define application deployment and versioning methodology Configuration management of environments. Maintenance of WIKI Architecture Standards Technical and Functional expert support:

Technology: AWS, K8s, Docker, Scrum, User Story, Kanban, Java 17, Microservices in SpringBoot2, Spring Framework, REST, GraphQL, Laravel, Graphana K6, RDS Postgres, MongoDB, Amazon DynamoDB, Kafka, Redis, Memcached, OAuth2, tracing and metrics solutions with stack ELK, Prometheus, Graphana, Instana, Spring Boot Admin, CI/CD: Sonar, Git, GitHub, Argo CD, Maven, NPM, Design Patterns, SOLID, UML Diagrams

MARCH 2020 – SEPTEMBER 2021: FUNCTIONAL ANALYST / BANCA MARCH, PALMA DE MALLORCA

Business or Sector: Banking

Wealth Project. Making functional documentation for the creation of new functionalities related to custody commission. Main functions: Analyze, define, and design new functionalities in the current technology of the bank. (COBOL / CICS / DB2)

JANUARY 2017 - MARCH 2020: HEAD OF ARCHITECTURE / BARCELO VIAJES, PALMA DE MALLORCA

Business or Sector: Tourism

Continuous Integration Systems: Jira, Bitbucket, SonarQube, Bamboo ...

+ 200 Repositories + 3,000,000 lines of code

MDBManager (in migration to AWS)

Artifactory, API-Gateway, Distribution of apps in application servers of all environments + (200), Define interfaces of integration engines and product model, Administration of deployment permissions in environments (on-premises and Cloud), Transversal Microservices (Authentication, Configuration, Log, Traces.). BackOffice Application of Architecture

Government of Enterprise Architecture (**TOGAF**). Analyze, define, and design solutions architectures for the front, services, and data layer Maintenance and update functional and technological architecture frameworks. Define the model, patterns, and standards of software development and code control Manage Continuous Integration System. Define application deployment and versioning methodology Configuration management of environments. Maintenance of WIKI Architecture Standards Technical and Functional expert support Analyze, define, and design transversal micro-services to current systems.

Technology: Cloud Platform: AWS with RedHat OpenShift 4. Best Practices: Scrum, TDD, User Story, Kanban, Backend: Java 8, Microservices in SpringBoot2, Spring Framework, REST, GraphQL, Testing: Cucumber, Junit5, Test Containers, Rest Assured, Karma, Jasmin, Locust, SQL: RDS Postgres, NoSQL: MongoDB, JMS: Kafka, Cache: Redis, Security: OAuth2, Monitoring, tracing, and metrics solutions with stack ELK, Prometheus, Graphana, Instana, Spring Boot Admin, CI/CD: Jenkins, Sonar, Git, Dependencies and artefacts: Maven, NPM, Design Patterns, SOLID, UML Diagrams

JUNE 2016 - JANUARY 2017: SOLUTION ARCHITECT / HOTELBEDS, PALMA DE MALLORCA

Business or Sector: Tourism

I was in charge of the following Systems.

- Hotel Integration Engine (Caronte Web, Caronte Services)
- Financial control system (Cash Management, Fx Management)

APRIL 2014 – JUNE 2016: HEAD OF ARCHITECTURE / BARCELO VIAJES, PALMA DE MALLORCA

Business or Sector: Tourism

Continuous Integration Systems: Jira, Bitbucket, SonarQube, Bamboo ...

+ 200 Repositories + 3,000,000 lines of code

Artifactory, API-Gateway, Distribution of apps in application servers of all environments + (200), Define interfaces of integration engines and product model, Administration of deployment permissions in environments (on-premises)

Government of Enterprise Architecture (**TOGAF**). Analyze, define, and design solutions architectures for the front, services, and data layer Maintenance and update functional and technological architecture frameworks. Define the model, patterns, and standards of software development, and code control Manage Continuous Integration System. Define application deployment and versioning methodology Configuration management of environments. Maintenance of WIKI Architecture Standards. Technical and Functional expert support. Analyze, define, and design transversal micro-services to current systems.

EMPLOYMENT HISTORY

OCT 2012 – APR 2014: PROJECT MANAGER AND HEAD OF ARCHITECTURE / BRUJULA TECNOLOGÍAS DE LA INFORMACIÓN, PALMA DE MALLORCA

Business or Sector: Tourism

MAR 2011 – JUL 2012: **IT DEVELOPMENT MANAGER** / AVALON TECNOLOGÍAS DE LA INFORMACIÓN, SANTANDER

Business or Sector: IT Services

- Public Sector (Government of Cantabria)

DEC 2008 – MAR 2011: **PROJECT MANAGER** / CIC CONSULTING INFORMÁTICO, SANTANDER

Business or Sector: IT Services

- Public Sector (Government of Cantabria)
- Telco (British Telecom)
- Energy (E-ON)

JUL 2005 – DEC 2008: **ANALYST – PROJECT MANAGER** / ATOS ORIGIN, SANTANDER

Business or Sector: IT Services

- Public Sector (Government of Cantabria)
- Telco (Telefonica)
- Telco (Vodafone)
- Energy (ENDESA)

OCT 2001 – JUL 2005: **ANALYST – PROJECT MANAGER** / GLOBALIA CORPORATION, MADRID

Business or Sector: Tourism / Aeronautics

SEP 2000 – OCT 2001: **TEACHER – SENIOR DEVELOPER** / INSA IBM GLOBAL SERVICES, MADRID

Business or Sector: IT Services

JUL 1999 – JUN 2000: **DEVELOPER** / TEFICAR, SANTANDER

Business or Sector: IT Services

EDUCATION

JUNE 1998

Geography (Specialty in Physical Geography) University of Cantabria, Santander

JUNE 2000

Computer Engineering Associate Degree CEDEFOR (Centro Europeo de Formación Profesional) First degree with honors.

CERTIFICATIONS

MAY 2025: **GitHub Copilot for Developers**. Deks Digital Experience School

MAY 2025: **Agile Practitioner**. Deks Digital Experience School

FEBRUARY 2025: **ITIL Foundation V4**. PeopleCert. Credencial GR671746209AP

FEBRUARY 2025: **Snowflake Data Platform**. Deks Digital Experience School

DECEMBER 2024: **AWS Cloud Practitioner Essential**. Deks Digital Experience School

NOVEMBER 2024: **Asynchronous Architectures: Kafka, Rabbit MQ, AWS SQS, Azure QS, Red Hat FuseV4**. Deks Digital Experience School

OCTOBER 2024: **Secure Web Programing**. Deks Digital Experience School

JANUARY 2024: **NoSQL Databases (MongoDB, Cassandra, Couchbase)**. Deks Digital Experience School

NOVEMBER 2023: **Serverless Architectures with Java (JAVA/SPRING CLOUD FUNCTION)**. Deks Digital Experience School.

LANGUAGES

SPANISH: MOTHER TONGUE

ENGLISH: B2

COMMUNICATION SKILLS

Affable person, good people skills, great communication skills, works well in a team, values others' opinions.

MANAGEMENT SKILLS

- Organize and execute projects successfully, in time, form, and cost.
- Maintain fluid, constant, satisfactory, and proactive communication with a client and the work team.
- Lead a team.
- Manage internal or external conflicts.
- Understand and resolve the problems and incidents from the execution of a project.
- Evaluate the activity performance of my team members.
- Detect and prevent project risks.
- Carry out constant monitoring of projects to detect and prevent major deviations.
- Make decisions with confidence.
- Report consistently to my manager.

DIGITAL COMPETENCE

- Operating Systems MS-DOS, UNIX, Windows, Linux, Solaris.
- Programming Languages: Basic, Pascal, Modula2, C, PL / SQL, Delphi 5, Visual Basic 6 (ActiveX, COM Components), HTML, DHTML, ASP 2.0, JavaScript, Visual InterDev, Visual FoxPro, Visual Age, Java (Threads, RMI, JDBC, Servlets, Applets, JSPs, JavaBeans, Sockets, Java Mail, JAXP, EJB, Struts, Spring, Spring Boot, Spring Security, Spring FW in general, IBatis, Hibernate, Acegi), XML, Grails, Groovy.
- Relational Databases: Programming in Access, PL / SQL (TOAD), SQL Server 6.5, Oracle 8i to 11g, Postgres, MySQL
- Non-Relational Databases: MongoDB, Amazon DynamoDB, Cassandra,
- Application Servers: Bea WebLogic, JBoss (4.0.5 to 8.0), I-Planet, Tomcat, JRun, IBM WebSphere, Internet Information Server.
- IDEs: Eclipse, NetBeans, IntelliJ
- Object-Oriented Analysis UML (Rational Rose, Enterprise Architect).
- Patterns of Enterprise Application Architecture
- Methodologies CMMI2, RUP, SCRUM, ITIL V4, TOGAF.

OTHER SKILLS

I practice different sports, mainly athletics and triathlons, I've run 29 marathons, 28 ultra-marathons, and 2 Ironman around the world.

PUBLISHED WORK

I've collaborated with different magazines related to athletics. (Planeta Running and Trail Run), writing articles about

- Boston marathon
- Lake Baikal marathon
- Rovaniemi Ultramarathon

and I have been invited by the organization of the Zurich marathon as a journalist.