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Computer Engineer

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I Experience

07/2022 – Present

Software Engineer [EN|ES], The Workshop

The Workshop is a product company specialized in gaming, betting, and fintech platforms. The platform serves more than 500,000 daily active users and processes nearly 1,000 operations per second. The backend is multi-brand and multi-tenant, offering shared services for multiple business lines from a single technical ecosystem.

Key Contributions

- **Backend service optimization:** Improved performance and system stability of the campaign service by refining exclusion logic and centralizing the task queue, preventing pod overload and achieving a more homogeneous workload distribution.
- **Kubernetes cluster upgrade:** Participated in the upgrade of the corporate cluster to a new version, deploying all product services into a new production environment. Coordinated with DevOps, Network, and Third Parties teams (both integrated with us and integrated by us) in a complex multi-team process.
- **Support task automation:** Developed an internal tool to automate processes related to *on-call* duties: phone redirection, wiki and messaging channel updates, automatic incident logging and ticket generation, including automatic rotation of the support schedule.
- **Cross-team collaboration:** Participated in code-cleanup initiatives to remove client-specific dependencies and improve service maintainability, as well as developing tools to analyze code impact across multiple teams.
- **Creation of a new production environment:** Involved in building a new production environment in an additional datacenter, deploying all services from scratch and managing the transition with controlled downtime.
- **Innovation and impact:** Contributed to a hackathon project focused on optimizing software licenses, achieving 3rd place company-wide.
- **Storage optimization:** Designed and executed a database cleanup process in the marketing system, significantly reducing required storage.
- **Technology migration:** Participated in migrating the marketing system from **Cassandra** to **Elasticsearch**, improving query efficiency and maintainability.
- **Operational reliability:** Documented complex technical investigations and standardized critical configurations to facilitate stable and reproducible deployments.

Key Achievements

- Improved campaign execution time by **90–95%** through logic optimization and flow refactoring.
- Reduced manual effort in on-call operations through full automation of planning and incident management.
- Supported external teams until full autonomy, improving code quality and delivery efficiency.
- Key contributor in the corporate Kubernetes upgrade program, resolving dependency and configuration blockers across teams and Third Parties.
- Reduced marketing system storage consumption by **15%** through data cleanup and optimization processes.
- Contributed to a hackathon project with an estimated savings of **€300,000/year** in software licensing costs.

🔧 Java (17+), Spring Boot, Spring Cloud, REST APIs, Kafka, RabbitMQ, Cassandra, Elasticsearch, Prometheus, Micrometer, PromQL, AlertManager, Grafana, Docker, Kubernetes, Helm, Git, CI/CD (Bamboo), JUnit, Pitest, Mockito, Angular, Jasmine, Selenium, Contract Testing, Scrum/Kanban

📍 Remote (from Madrid, Spain)

07/2019 – 06/2022

Software Engineer/Analyst [ES], Comunytek (acquired by VASS Group) - Client: BBVA

I was part of the architecture department of BBVA's CIB area, working on the "NOVA Platform", an internal cloud-like environment to host and operate CIB services. The platform offered: service management through a web interface, REST API definition in OpenAPI, client/server code generation with CLI, Git integration, automatic deployment with Docker, testing and deployment across different environments (dev, pre-production, production), security control, and monitoring.

Key Contributions

- Integrated **Python** support into a platform originally built for Java.
- Integrated the platform with the bank's **Kubernetes cluster** for service deployment, replacing virtual machines.

My role was **software engineer** and **functional analyst**, participating in all phases: analysis of specifications, architecture design, and programming.

Main Responsibilities

- Analysis and development of technical specifications
- Backend and frontend programming
-  Java 8, PostgreSQL, Microservices, REST, Spring Boot, Docker, Swarm, GlusterFS, Python, NodeJS, Git, Maven, Scrum
-  Madrid, Spain

01/2017 – 06/2019

Software Engineer/Technical Lead [ES|FR], Locken (acquired by ISEO Group)

At *Locken*, a product company with a small and constantly evolving IT department, I played a versatile role covering analysis, design, development, testing and innovation. I actively contributed to the product's technical definition, infrastructure modernization, and adoption of new technologies within the team.

Main Responsibilities

- Development and review of technical and functional specifications
- Architecture design and definition of development standards
- Backend programming (Java, Spring Boot) and web development
- Code review and technical support to the team
- R&D activities and evaluation of new technologies

Featured Projects

- **Testing infrastructure refactoring:** migration of legacy code to a modular *Spring Boot* project with continuous integration in Jenkins and Docker, reducing execution time by 60% and cutting duplicated code by more than half.
 -  Java 8, Spring Boot, JUnit, Selenium, Jenkins, Docker, Rancher
- **Microservices architecture design:** backend development for the company's mobile and web applications using *Spring Cloud*, *Consul*, and *Docker*.
 -  Java 8, Spring Boot, Spring Cloud, Consul, Docker, Rancher
- **Identity Server deployment:** configuration and rollout of *WSO2 Identity Server* as the authentication core for the entire microservices infrastructure.
 -  WSO2 Identity Server, Docker, Rancher
- **Corporate chatbot development:** creation of a chatbot for Skype and SMS based on *Microsoft Bot Framework* and *Dialogflow*, providing a new user support channel.
 -  Microsoft Bot Framework, Node.js, Restify, AI, NLP, DialogFlow, Azure Bot Service, Twilio, SMS, REST API, Spring Boot, Spring MVC, Spring State Machine, Redis, Docker, Docker Compose
- **BI platform deployment:** setup and maintenance of a *Pentaho* platform for automated report generation.
 -  Pentaho, PostgreSQL
- **Access management web app:** development of a *Spring Boot* backend with *WebSockets* and REST API for real-time monitoring of facility access logs.
 -  Spring Boot, Apache Camel, XML/RPC, REST API

I also promoted the adoption of emerging technologies such as *Docker* and *Progressive Web Apps*, encouraging their use in new department developments.

-  Madrid, Spain

01/2016 – 01/2017

Software Engineer/Analyst [FR], SopraSteria - Client: Edelia (now part of Datanumia)

Backend development of the “Portal Équilibre” project, a microservices-based platform for processing readings from **tens of millions of smart electricity meters** in French households, with hourly data updates. My role was **software engineer** and **functional analyst**, contributing to all phases: technical analysis, implementation, and testing.

Main Responsibilities

- Development of technical specifications
- Review of functional specifications
- Backend programming in a microservices environment

🔧 Java 8, Spring Boot, Spark, Cassandra, Apache Camel, Activiti, JUnit, DB2, REST, Git, Maven, Scrum

📍 Nantes, France

09/2015 – 01/2016

Technical Lead [FR], SopraSteria - Client: Banque de France

Participation in the **launch of the “Programme FIBRE” project**, a new web application for Banque de France. My role was **technical lead**, with a strong focus on supervising and mentoring a team of mostly junior developers.

Main Responsibilities

- Code review and assurance of technical quality
- Estimation and tracking of technical budgets
- Mentoring and guidance for junior team members
- Review of technical and functional specifications

🔧 Java 8, REST, AngularJS 1.5, Angular Material, Angular UI Router, Gulp, Bower, Karma, Jasmine, Protractor, Arquillian, JUnit, Git, Maven

📍 Lille, France

09/2014 – 09/2015

Technical Lead/Project Technical Manager [FR|ES], SopraSteria - Client: EDF

End-to-end development of a web application for managing cogeneration facilities. My role was **technical lead**, driving technical design and implementation, while coordinating a small development team.

Main Responsibilities

- Design of common components and establishment of development patterns
- Definition of code structure and project best practices
- Backend and frontend development
- Team coordination and mentoring of junior members

🔧 Java 7, JQuery, Thymeleaf, Spring MVC, Spring Security, LDAP, Weblogic, Hibernate, SQL, Oracle, Web Services, JUnit, SVN, Maven, Jenkins

📍 Madrid, Spain

09/2013 – 09/2014

Technical Lead [FR|ES], SopraSteria - Client: EDF

Maintenance and evolution of a web application for managing photovoltaic installation contracts for EDF. My role was **technical lead**, contributing to analysis, programming, and coordination of junior team members.

Main Responsibilities

- Technical analysis of functional requirements
- Preparation of technical estimates
- Mentoring and guidance for junior developers
- Backend and frontend programming

🔧 Java 6, JQuery, JSP, Struts, Spring, Spring Batch, Weblogic, Hibernate, SQL, Oracle, REST, Web Services, JUnit, DBUnit, SVN, Maven, Jenkins

📍 Madrid, Spain

06/2012 – 08/2013

Fullstack Developer [ES], Sportegos (startup)

Development of a web application for searching mass participation races, managing registrations, and ticketing. Work carried out in an **early-stage startup**, participating in all phases: architecture design, fullstack development, and infrastructure preparation.

Main Responsibilities

- Application architecture design
- Frontend and backend programming
- Infrastructure setup and management

🔧 Java 6, Spring MVC, REST, PayPal integration, Spring Social, Spring Security, Spring Batch, Apache Camel, JSP, HTML, JQuery, AngularJS, Elasticsearch, Spring Data, JPA, Hibernate, MySQL, JUnit, Tomcat, Git

📍 Madrid, Spain

06/2010 – 05/2012

◦ **Software Engineer/Analyst [ES], Bilbomática - Client: Basque Government**

Development of a web application for managing industrial facilities (elevators, refrigeration systems, etc.) and inspection processes. My role was **software engineer** and **functional analyst**, leading a small team and participating in both analysis and programming tasks.

Main Responsibilities

- Management of a small development team
- Technical analysis of functional requirements
- Backend and frontend programming

❖ J2EE, Struts, JSP, JSTL, Servlet, JavaScript, CSS, EJB, Web Services, JUnit, SVN, Weblogic, SQL, Oracle, Maven, Hudson

📍 Bilbao, Spain

06/2008 – 06/2010

◦ **Developer [ES], Bilbomática - Client: Basque Government**

Development of a web application for the gaming and entertainment directorate, including license management, facility inspections, and fine collection. My role was **developer**, focused on implementation and maintenance of the application.

Main Responsibilities

- Backend and frontend development

❖ J2EE, Struts, Documentum, JSP, JSTL, Servlet, JavaScript, CSS, EJB, MDB, Web Services, JUnit, DBUnit, SVN, Weblogic, SQL, Oracle, Maven, Hudson

📍 Bilbao, Spain

| Education

2018 – 2019 ○ **Master's degree in Data Science & Big Data, U-TAD**

- Data Analysis:
 - *Introduction to Classification, Regression, Clustering, Dimension Reduction*
- Machine learning:
 - *SVM, Decision Tree, Random Forest, K-means, Logistic Regression with SciKit Learn and Spark MLlib*
- Deep Learning:
 - *Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks with Keras and Tensorflow*
- Data preparation with Python:
 - *Pandas, Numpy*
- Data preparation with R:
 - *dplyr, tidyverse*
- Advanced Machine learning:
 - *Recommendation systems, NLP, Topic Modeling, Approximation algorithm, Sentiment Analysis*
- Data visualization:
 - *Tableau, ggplot2, Bokeh, d3.js, CartoDB*
- **Final Master's Work**
 -  *Automatic Pothole Detection System from Road Surface Images [ES]*

2002 – 2007 ○ **Computer Science Engineering, Deusto University**

| Skills

Languages Java (17+), Bash, Python, TypeScript, JavaScript,

Frameworks Sprign Ecosystem, Microservices, REST APIs, Metrics, Dashboards, Angular, Node.js,

Data & Cassandra, PostgreSQL, ElasticSearch, Oracle, RabbitMQ, Kafka,

Messaging

DevOps & Cloud Docker, Kubernetes, Helm, Jenkins, CI/CD, Git, Scrum, Kanban,

Testing & Quality JUnit & Mockito, Mutant Testing, Selenium, Contract Testing, Jasmine,