25 - February - 1994

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About me

Software engineer with over eight years of professional experience, during which I have had the opportunity to participate in various types of projects that have helped me develop the most relevant skills to shape my professional future.

I am someone who loves taking on new professional challenges, which is why I am always actively seeking out new training, courses, etc. that may be beneficial to my professional development. I always maintain a proactive stance towards new opportunities that may arise.

CARLA ÁLVAREZ DEL BARCO
Software Engineer.

Professional experience

Senior Software Engineer.

ING Bank | 2022 - Now

About the project:

- Implementation of a **microservice** project from scratch for reconciling Bizum payments in e-commerce and subscription payments to platforms.

- Project and team management with the external provider, task management, requirements gathering.

- Backend developed in **Java 17,** implementing REST API microservices with ING's own Spring Boot.

- Use of **Dbass** for platform data storage.

- Use of **AWS S3** for Storage. Implementation of Kafka client and Kafka services in microservices architecture for events.

- Use of **hexagonal architecture** for project development.

- Deployments with Azure, with continuous integration pipeline executions to ensure project quality (code smell, bugs, coverage, etc). Use of **Azure Devops suite**.

- Coverage testing with **JUnit**.

- Version control in **GitLab**, with Maven repository in Azure.

- Project organization with agile methodologies, using **Jira** and **Confluence** for daily tasks.

- Use of ING's own Merak framework.

Additionally:

- **Scrum Master**, leading agile teams in product development, ensuring effective implementation of Scrum methodologies, facilitating daily stand-ups, retrospectives, and sprint planning, as well as removing obstacles to team progress.

Software Engineer -
Polytechnic University of
Madrid

Current English
proficiency level: B1.

APTIS General Certificate
B2.

Software development

Paradigma Digital - Mercadona | 2021 - 2022

- Implementation of a project from scratch for a map management platform with the goal of store distribution setup both internally and building location.

- Backend developed in Java 11, implementing REST API microservices with Spring Boot. Implementing Swagger for Endpoint exposure.

- Use of MongoDB for platform data storage.

- Use of Google Cloud for Cloud Storage. Implementation of Kafka client and Kafka services in microservices architecture.

- Employment of hexagonal architecture for project development.

- Deployments with Spinnaker, with continuous integration pipeline executions using the client's own Jenkins and integrated with SonarQube to ensure project quality (code smell, bugs, coverage, etc.)

- Coverage testing with JUnit.

- Version control in GitLab, with Maven repository in JFrog.

- Project organization with agile methodologies, using Jira and Confluence for daily tasks.

- Use of Mercadona CNA's proprietary framework.

Technical Skills.

- Expert functional knowledge in Java development.

- Able to use different development methodologies to achieve an adapted and optimal solution.

- Solid technical foundation in Java, microservices, REST APIs, ELK, and SolR.

- Passionate about learning new programming languages.

Personal Skills.

- I have participated in transformation processes towards agile methodologies in a project, implementing them from sprint 0.

- Excellent teamwork skills.

- Accustomed to working on large and complex projects. Quick implementations in a short time.

- Proactive when performing tasks, devising new solutions, and always willing to continue learning.

- Very positive attitude.

Software development

Paradigma Digital - Inditex | 2020 - 2021

- Implementation of a project built from scratch for an article search engine for Inditex based on the SolR search engine.

- Backend implementation in **Java 8** (using lambdas) and **SpringBoot** for process management, scheduling, user management, etc.

- Implementation of **microservices** with SpringBoot and **REST API** for article search, term suggestion, faceting, etc.

- Integration with **Kafka** as both client and server for microservices communication and bulk messaging. Implementation of Avros and queue management.

- Deployments with **OpenShift**.

- Task management and deployment management through Jira. Project integrated with Bamboo (Atlassian suite) for continuous integration and microservices compilation, and with SonarQube to assess its quality.

- Log management through **Graylog**.

- Code management and versioning in **Bitbucket**.

- Microservices management and implementation in **Swagger**.

- Data management in **Grafana**.

- Implementation of **JUnit** tests to ensure product quality, as well as PI mutation tests to evaluate test and project quality.

- Performance improvement of another search engine to achieve optimal results, increasing search speed.

- Use of AMIGA's proprietary framework.

Team management tasks.

Paradigma Digital | 2021 - 2022

(Parallel tasks to back-end development tasks)

- Providing feedback to colleagues with back-end development skills, assisting them in achieving their goals, training, solving doubts, etc.

- Monitoring code quality in internal company projects.

- Temporary involvement in company management to identify potential needs in projects, clients, and personnel.

Software development

Paradigma Digital – Pelayo Seguros | 2020 - 2020

- Implementation of a chatbot in DialogFlow with a backend architecture based on Node.js.

- Insurance call robot to streamline claims management, coverage, etc. through customer phone calls, centralizing all calls in the robot and avoiding all of them reaching agents.

- Use of Google Cloud tools and specific training on them.

- Code management in GIT.

- Task management with Trello.

Software development

Paradigma Digital | 2020 - 2020

- Development of an internal feedback management tool for the company implemented in Java, with Spring Boot microservices.

- Management and sending of emails.

Software development

Paradigma Digital - ECI | 2019 - 2020

- Participation in a project for the development and migration of search engines based on SolR, migrated to ElasticSearch, in Java.

- Use of microservices in Spring Boot.

- Analysis of OpenShift platforms for deployments.

- Identifying improvements in existing search engines and making change proposals for both the search engine to be used and the structure of the developed microservices.

- Implementation of libraries to adapt clients to the new search models.

- Implementation of JUnit tests to ensure product quality.

Solution analyst.

Everis – Portal de Transparencia de la administración general del estado | 2018 - 2019

- Implementation of agile methodologies.

- Team management, organization, and coordination. Effort estimation.

- Implementation of tools such as Jira and Trello for task management.

- Experience with tools such as Confluence and Mantis for issue management.

- Identifying new requirements, analyzing new customer needs for the implementation of new features in the Government Transparency Portal.

- Documenting functionalities, technical analyses, test plans, etc. for the implementation of new features.

- Development of search engines based on ELK technology. (Data management in Kibana and search engine implementation in ElasticSearch)

- Development of specific APIs.

Solution Assistant N2

Everis – Punto de acceso general de la administración pública | 2017 - 2018

- Back-end and front-end development in JAVA, JavaScript, JSP, jQuery.

- Content management development using the Freemarker Java Template Engine programming language for the maintenance of the electronic administrations portal.

- Development in frameworks: Spring MVC, Spring Boot, Hibernate.

- Web service development: SOAP, REST.

- Database management, SQLServer, MySQL.

- Experience in application servers: TOMCAT, JBOSS, WILDFLY, and Apache.

- Experience in version control systems: GIT and SVN.

Solution Assistant N1

Everis – Portal de la administración electrónica | 2016 - 2017

- Development in programming languages: JAVA, JavaScript.

- Web presentation layer: development in HTML5 and CSS3.

- Creation of web portals using the Magnolia CMS content management system and development of the own tool using the FreeMarker Java Template Engine language: portals such as Cl@ve, Transparency Council, General Access Point, etc.

- Unit and integration testing.