



Ismael Berdusán Muñoz

Spanish - Native

English - High Level

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ABOUT ME

Computer science graduate with a strong interest in **systems administration**. Ability to adapt to all types of environments and always strive to give my best. Seeking to learn new technologies and improve my abilities.

EXPERIENCE

Virtualization and Network Integration

University of Zaragoza, February 2025 - April 2025

Conducted the design and implementation of a **virtual machine server** seamlessly integrated with the **network architecture** of the **Department of Computer Science and Systems Engineering**. This involved an in-depth analysis of **OpenStack** as a virtualization management tool, its **installation and configuration using Kolla Ansible** on a dedicated server, and the setup of **network segmentation and virtualization** for both the server and its virtual machines. Additionally, comprehensive **documentation** was prepared to detail the entire process and its outcomes.

EDUCATION

Degree in Computer Science

University of Zaragoza, 2019 - 2025

Systems Administration

Implementation of IT infrastructures and managing **VLANs** and **IPv6** environments. Leveraging automation tools developed in **shell scripting** and **Ruby** to streamline remote management tasks. Experience spans across **OpenBSD** and **FreeBSD**, with a focus on critical applications such as **NTP**, **DNS**, **NFS**, and **FreeIPA** for domain management.

Databases

Installation, configuration, and management of various **DBMS**, both **SQL** (**Oracle**, **PostgreSQL**, **MySQL**) and **NoSQL** (**MongoDB**, **Cassandra**), as well as ensuring their security and subsequent data exploitation.

Web Development

Development of a **Full Stack** application using the **MERN** stack (**MongoDB**, **Express**, **React**, and **Node.js**), integrating the public **API** of Zaragoza City Council to provide real-time information on **bicycle and station availability**, with features such as **search filters**, **travel routes**, and **data visualization**.

SKILLS

Teamwork

Troubleshooting

Attention to detail

Self-management

Continuous Learning

Initiative

TOOLS

Python

Go

C++

C

JavaScript

TypeScript

Java

Kotlin

Bash

SQL

Node.js

Express

PostgreSQL

MongoDB

Oracle

Docker / Docker Compose

Git

GitHub Actions

CI / CD

HTML5

CSS3

Tailwind

React

Next.js

Astro

Linux

Ubuntu

Centos

Windows

OpenStack

KVM / QEMU

VirtualBox

Markdown

Swagger / OpenAPI

Overleaf

LaTeX