



# 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