



Pablo González

COMPUTER ENGINEER · PYTHON ENGINEER

Salamanca, Castilla y León, Spain

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Summary

Hey there! I'm Pablo González, a Computer Engineer with a specialization in backend engineering and web-services development. My expertise lies in Python, particularly using Django or FastAPI. I'm a GNU/Linux user, a big advocate of Open Source Software, and passionate about improving code readability and functionality. When I'm not coding, I enjoy tending to my plants, playing sports, and helping others.

Education

USAL(University of Salamanca)

Salamanca, Spain

B.S. IN COMPUTER ENGINEERING

Sep. 2018 - Jul. 2022

- Got a 10 with Honours in the Final Degree Project: Prometheus-like system for monitoring and command execution on multiple devices from different networks.

Work Experience

Axpe Consulting S.L.

Salamanca, Spain

PYTHON ENGINEER - FULL TIME

Dec. 2022 - Present

- Spearheaded the end-to-end development of international-scale artificial intelligence projects, leveraging Python for back-end development and ReactJS/NextJS for front-end interfaces.
- Pioneered the creation of an API-First archetype and orchestrated the development of numerous microservices using FastAPI, meticulously applying Domain-Driven Design principles with SQLAlchemy 2.0 and PostgreSQL.
- Demonstrated expertise in enhancing project quality through extensive refactoring, adherence to best practices, and proficient deployment of Python applications within Docker and Docker-Compose environments.
- Executed seamless data transformation initiatives, proficiently migrating data from relational databases (SQL Server) to non-relational databases (MongoDB).
- Crafted efficient scripts for the generation of Insomnia configuration files, streamlining development processes.

Panelais Producciones S.A.

Huerta del Tormes, Salamanca, Spain

PYTHON ENGINEER & SYSADMIN - FULL TIME

Mar. 2022 - Dec. 2022

- Designed and developed a web application using Django, integrated with multiple Microsoft SQL Server databases. This application facilitates the efficient management of internal company processes and offers real-time data visualization for machines and continuous production lines.
- Conducted in-depth analysis and optimization of complex SQL queries across multiple databases, enhancing data retrieval efficiency and system performance.
- Administered Linux servers to maintain data extraction services, deploy various web pages, and monitor databases through Python scripting, ensuring seamless system operation.

Sídisel Electrónica S.L.

Villamayor, Salamanca, Spain

PYTHON DEVELOPER - INTERNSHIP CONTRACT

Jan. 2022 - Feb. 2022

- Utilized GitLab for version control and incident management.
- Employed Docker for microservice deployment and management.
- Conducted functional testing of servers' API using Pytest and Tox.
- Integrated Django with services like Wagtail for enhanced functionality.
- Collaborated on Python client interactions with microservices.
- Developed Python/Django-based microservices for transaction and basic information management.

Ecoinnotec S.L.

Carbajosa de la Sagrada, Salamanca, Spain

SYSADMIN - INTERNSHIP CONTRACT

Jul. 2021 - Sep. 2021

- Designed and implemented a RESTful API monitoring solution for Windows and Linux using Python and Flask.
- Developed scripts for deploying Odoo ERP servers.
- Provided IT Helpdesk support, addressing a wide range of technical issues.
- Conducted PC setup and configuration for new employees.
- Performed general IT troubleshooting tasks.

Projects

Final Degree Project - Monitor

Salamanca, Spain

UNIVERSITY OF SALAMANCA

Jun. 2021 - Jul. 2022

- A **FastAPI** based agent capable of command execution, deployed on hosts that require monitoring.
- The agent sends requests to a **Django/Django REST Framework** web app that manages data and presents it.
- The web app is deployed with **Nginx** and **Uvicorn** for the Web Server, **Redis** for the background tasks and **PostgreSQL** for the database.
- Deployment of the web app is done with **Docker**.
- **Final Grade:** 10 with Honours.

Honors & Awards

NATIONAL

Dec. 2020 **Semifinalist**, II National CyberLeague

Online

Nov. 2019 **17th finalist**, I National Cyberleague

Madrid, Spain

Sep. 2019 **Participant**, 1st Regional Cybersecurity Forum

Salamanca, Spain

Oct. 2018 **1st Classified**, I National Cyberleague at USAL

Salamanca, Spain

Writing

Personal Blog

www.pablogonzalez.me

FOUNDER & WRITER

Oct. 2019 - Present

- Write IT posts about programming, administration of Linux services and Hack The Box machine resolutions.