



Pablo González

COMPUTER ENGINEER · PYTHON ENGINEER

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Skills

Programming	Python, Bash, SQL	Databases	PostgreSQL, MySQL, MS SQL, MongoDB
Back-end	FastAPI, Flask, Django, SQLAlchemy	DevOps	Docker, AWS, GitHub Actions
Agile	Scrum, Jira, GitHub Projects, Confluence	Languages	Spanish (Native), English (High)

Work Experience

uXcale (Software Services)

PYTHON ENGINEER - SANTANDER BANK

Nov. 2023 - Present

- Participated in the design and implementation of APIs in Python with FastAPI, developing an **IaaS cloud service model**
- Contributed to the integration of **microservices**, facilitating smoother internal service interactions
- Designed and implemented generic **CRUD for unknown data structures** in Python with PostgreSQL
- Collaborated on the development and testing of **GitHub Actions and Workflows** for the verification and validation of data values prior to the creation of a Kubernetes Namespace, as part of an Scaffolding action
- Applied **Scrum methodologies** to manage project timelines and deliverables efficiently, utilizing **Jira** for project tracking

PYTHON TECHNICAL LEAD ENGINEER

Nov. 2023 - Present

- Created a **Python microservice archetype** with FastAPI and SQLAlchemy, **cutting development time by up to 76 hours** and establishing high standards of code quality (🔗 github.com/n0nuser/fastapi-archetype)
- Coordinated **internal projects in Python**, working closely with managers of each area, achieving smooth development cycles across teams
- **Mentored and trained colleagues** in: version control, quality of code, database design and agile methodology best practices
- Kept a high degree of project clarity by organizing workflows using **GitHub Projects**, and **reviewing and merging Pull Requests**
- Created a **Python backend development learning roadmap** to demonstrate ongoing learning and skill enhancement
- Collaborated on the design of **corporate methodologies** for collaboration, organization and development cycles

PYTHON ENGINEER - QUANT AI LAB.

Dec. 2022 - Nov. 2023

- Integrated **FastAPI with internal AI libraries**, implemented **OAuth** security, and used **MongoDB** with a generic CRUD manager
- Revamped existing AI application, utilizing **FastAPI and MongoDB** for backend and **React with NextJS** for frontend; **significantly improved workflow, streamlined hiring process, and enhanced efficiency for numerous employees**
- Executed successful data transformation initiatives, **migrating data from legacy Access - SQL Server to MongoDB**; crucial step in modernizing data infrastructure and ensuring compatibility with evolving technological needs

PYTHON ENGINEER - INTERNAL DEVELOPMENT

Dec. 2022 - Nov. 2023

- **Led the API-first development** of a three-microservice system on **AWS** for a reservation system, using **FastAPI, PostgreSQL, and Docker**. Ensured secure, scalable architecture and optimized deployment for efficient microservice communication
- Developed a modular **Insomnia configuration tool** actively employed by the API design team, enhancing maintainability and usability with classes and Jinja templates

Panelais Producciones S.A. (Metallurgy)

PYTHON ENGINEER & SYSADMIN - FULL TIME

Mar. 2022 - Dec. 2022

- Developed the company internal web application using Django, integrated with multiple **Microsoft SQL Server** databases for **real-time data visualization of machines and continuous production lines** and management of internal company processes and offers
- Administered Linux servers to: maintain **data extraction services via IoT messaging (MQTT)**, deploy multiple web pages, and **monitor databases through Python scripting**, ensuring seamless system operation
- Conducted in-depth analysis and optimization of complex SQL queries across multiple databases, enhancing data retrieval efficiency and system performance

Sidisel Electrónica S.L. (Software Services)

PYTHON DEVELOPER - INTERNSHIP CONTRACT

Jan. 2022 - Feb. 2022

- Employed **Docker** for microservice deployment and management
- **Integrated Django with services like Wagtail** for enhanced functionality
- Used GitLab for version control and incident management
- Collaborated on Python client interactions with microservices
- Developed Python/Django-based microservices for transaction and basic information management

Ecoinnotec S.L. (Retail Services)

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

Education

USAL(University of Salamanca)

Salamanca, Spain

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Sep. 2018 - Jul. 2022

- **Secured a perfect score and Honours** in my Final Degree Project, developing a **Prometheus-like system for server monitoring**, serving multiple devices across diverse networks.

Projects

FastAPI Production-Ready Archetype



github.com/n0nuser/fastapi-archetype

OPEN SOURCE PROJECT

Dec. 2023 - Present

- Developed by my own a template that follows **Domain Driven Design**, includes **SQLAlchemy Models with a generic CRUD**, example endpoints, a complete and strict list of **pre-commit hooks** (such as Ruff, Bandit and Pylint), and functional .env, **Dockerfile and Docker-Compose** configurations, among other things. It serves as a solid foundation for all Python microservice projects, promoting consistency and high standards of code quality, while **reducing development time by up to 76 hours**.

Monitor

Salamanca, Spain

FINAL DEGREE PROJECT - 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.**

Certificates

May. 2024 **Scrum Master Professional Certified**, EIGP - Escuela Internacional de Gestión de Proyectos

[EIGP-401741362](#)

Aug. 2023 **Confluent Kafka Fundamentals Accreditation**, Confluent

[79028533](#)

Honors & Awards

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