

Guillermo Emmanuel González Méndez

Computer Engineer · Backend & Full-Stack (NestJS, Python, PostgreSQL)
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📍 San Cristóbal de La Laguna, Tenerife

Skills

- </> Languages**
TypeScript, Python, C++, SQL
- <> Backend & Frontend**
NestJS, Node, React, REST APIs
- 🗄 Databases**
PostgreSQL, MariaDB, SQL Server (SSIS)
- 🏗 Infrastructure & DevOps**
Docker, Proxmox, NGINX, Git, Linux
- 🤖 AI & Automation**
AI agents, MCP (Model Context Protocol)

Languages

- Spanish**
Native
●●●●●
- English**
Professional working proficiency
●●●○○

Interests

- 🏆 **Sports**
- ✈ **Aviation**
- 🎮 **Video games**
- 📺 **Economics**

Profiles

- 🌐 **LinkedIn**
[guillermo-gonzalez-mendez](#)
- 🐙 **GitHub**
[GARTOLO](#)

Summary

Computer Engineer from the University of La Laguna with experience in backend and full-stack development: API design, relational data modelling and deployment of containerised services. Main stack: TypeScript/NestJS and Python on PostgreSQL and MariaDB, including the deployment of AI agents and MCP (Model Context Protocol) servers in a corporate environment. I am currently studying a Double Master's Degree in Computer Engineering and in Cybersecurity & Data Intelligence.

Education

- Universidad de La Laguna** B.Sc. in Computer Engineering
Escuela Superior de Ingeniería y Tecnología
San Cristóbal de La Laguna • 2021 – 2026
- Universidad de La Laguna**
Double Master's Degree in Computer Engineering & Cybersecurity and Data Intelligence
Escuela Superior de Ingeniería y Tecnología
San Cristóbal de La Laguna • Sep 2026 – Present

Experience

- Metropolitano de Tenerife, SA** San Cristóbal de La Laguna, Tenerife
Internship · Full-Stack Development Mar 2026 – May 2026
- Developed and maintained web applications, including data generation and export systems in PDF and Excel formats.
 - Monitored and managed ETL pipelines for data integration, including the migration of SQL Server Integration Services (SSIS) packages.
 - Designed, configured and deployed AI agents and MCP (Model Context Protocol) servers.

Volunteer

- IVAO - International Virtual Aviation Organisation** Jun 2023 – Present
- Webmaster for the Spanish division: technical owner of its digital ecosystem.
 - Designed and implemented architecture with React, NestJS, SQL, Python and TypeScript to optimise the division's services.
- <https://ivao.aero/>

Projects

- TitsaGPT – Thesis: backend architecture of a conversational agent** 2026
Bachelor's thesis with TITSA (Cabildo de Tenerife): backend design and architecture of TitsaGPT, a conversational agent for the island's public transport network.
- Homelab & Self-Hosting Infrastructure**
- Administered two live hosts: a home server with Proxmox running 30 Docker containers, and an Oracle Cloud VPS running 9 more.
 - Configured networking, secure service exposure and certificate management with SWAG as reverse proxy, Authelia for authentication and CrowdSec for perimeter protection.
 - Centralised container management with Portainer/Dockhand, monitoring with Uptime Kuma and ongoing maintenance of self-hosted applications.

Certifications

- Microsoft Certified: Azure Fundamentals** 2023
Microsoft
- Foundations of Git - Certification Course** 2024
GitKraken