

CONTACT

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TECHNICAL SKILLS

AI & Automation

Generative AI · Prompt Engineering · AI Agents · LLM integration via API · Model Context Protocol (MCP) · n8n · Power Automate · Webhooks · AI-assisted development (Claude Code)

Languages & Backend

Python · TypeScript · PHP (Symfony v1–v3) · SQL · Bash/Shell Scripting · Node.js · Flask

Data Engineering

PostgreSQL (Advanced) · MySQL · MongoDB · ETL Pipelines · Data Cleansing · Data Warehousing · BI · Power BI

Frontend & Frameworks

Angular · React · Next.js · JavaScript · jQuery · ExtJS

DevOps & Tools

Docker/Docker Compose · Linux · Git (GitLab/GitHub) · CI/CD · Microservices · REST APIs · DataGrip · ArcGIS

Project & Ticket Management

Jira · Monday.com · Zoho (Desk/Projects) · backlog management · Scrum/Kanban

Documentation & Quality (QA)

Technical and functional documentation · Confluence

// curriculum vitae

Frank Yasel de Armas Mora

Senior Software Engineer · Data Engineering, Automation & AI

PROFESSIONAL SUMMARY

Computer Engineer with 10+ years of experience across the full software development life cycle (SDLC), specialized in Data Engineering, Backend architecture and intelligent process automation. Expert in PostgreSQL and MongoDB, with a proven track record modernizing legacy systems, leading technical teams and building ETL pipelines. Currently focused on applying Generative AI and low-code automation (n8n, Power Automate) to eliminate manual work, integrate systems and build intelligent agents that deliver measurable operational efficiency.

PROFESSIONAL EXPERIENCE

Software Engineer – Data Engineering, Automation & AI

Feb 2022 – Present

Confidential / Freelance

- **ETL Architecture & DataOps:** Design and orchestration of scalable data pipelines with Python, PHP, Bash, Power Automate and PostgreSQL, ensuring integrity and consistency of large data volumes, including database migrations in production environments.
- **Data Quality:** Implementation of cleansing, transformation and validation routines (Data Cleansing) to ensure data quality in critical environments.
- **Intelligent Automation with n8n:** Development of complex workflows integrating APIs, databases and external services, replacing manual processes with end-to-end automated flows.
- **Multichannel AI Agents:** Creation of LLM-based conversational agents for customer service, lead qualification and scheduling over WhatsApp and Telegram, integrated with management systems.
- **Digital Marketing Automation:** Building publishing and content-management solutions across multiple social networks via Meta APIs, with AI-assisted content generation.
- **Prompt Engineering & LLM Integration:** Prompt design, structured outputs (JSON) and integration of AI models into business flows and internal tools, including MCP servers.
- **Internal Tools:** Development of desktop and web applications in Python (Flask, PyQt6) to automate infrastructure management, database access and Jira integration.
- **Infrastructure:** Deployment and administration of containerized services (Docker) on Linux servers, including ARM64 architecture.
- **Documentation & Quality:** Technical documentation of processes, APIs and automation flows; functional and integration testing to validate deliveries before production; request and incident management in tools such as Jira, Monday and Zoho.

Tech Lead & Principal Specialist

Nov 2020 – Feb 2022

GEMPIL (Light Industry Business Group)

- **Team Leadership:** Led the development and IT team, driving the digital transformation strategy of the business group and its subsidiaries.

LANGUAGES

Spanish	Native
Portuguese	Intermediate - B2
English	Intermediate - B1
French	Basic - A1

EDUCATION

B.Eng. in Informatics Sciences
University of Informatics Sciences (UCI), Cuba
2010 - 2015

CERTIFICATIONS

Introduction to creating with Power BI
Microsoft Learn

- **Software Architecture:** Led the design and development of an Enterprise Management solution based on Microservices and Angular, with MongoDB for flexible data handling.
- **API Management:** Implemented secure, scalable REST API services for interoperability between corporate systems.

Frontend Developer
Jan 2020 - Aug 2020
Dofleini

- **SPA Development:** Built the interface of the "Escala" application in Angular, delivering a smooth, reactive user experience.
- **Integration:** Connected to Backend services via REST APIs and managed client-side state.

IT Specialist & DBA
Sep 2017 - Jun 2019
GEMPIL

- **Database Administration:** Management, maintenance and optimization of high-availability PostgreSQL and MySQL clusters.
- **Full Stack Development:** Built the Corporate Intranet and IT asset control systems with Symfony 3 and AngularJS.
- **Version Control:** Rolled out Git/GitLab workflows to standardize code versioning.

Backend Developer & DevOps
Sep 2015 - Sep 2017
University of Informatics Sciences (UCI)

- **Critical Systems Deployment:** Deployment and administration of the SIGE v3 system for the Ministry of Industries, managing repositories and servers.
- **Legacy Maintenance:** Support and evolution of Symfony 1/2 systems, ensuring the continuity of national platforms (PADTSI, SIGELite).
- **Business Intelligence:** Analysis, design and implementation of Data Warehousing and data integration processes.