

FRANCISCO CALVO RODRIGUEZ

Computer Systems Engineer | Data Engineer & AI Engineer

México City | +52 55 3173 6148 | calvorodriguez.francisco99@gmail.com

GitHub: <https://github.com/Yukiseip> | LinkedIn: <https://www.linkedin.com/in/francisco-cr99/> |

Portfolio: <https://www.yukisei.com/>

PROFESSIONAL PROFILE

Computer Systems Engineer focused on data analysis, artificial intelligence, and process automation. Experienced in large-scale data migration and ETL pipeline development, using Python and tools such as Pandas and dbt to transform data into practical solutions. Strong foundation in web application architecture, with experience building end-to-end systems that integrate LLMs, LangChain, and RAG into business applications.

EXPERIENCE

Attorney General's Office of the State of Chiapas

Mexico City, México

Systems Assistant – Data Analysis & Process Automation (Remote)

2026 – Present

- Automated data analysis and validation processes across more than 1,000 records using Python scripts, reducing processing time from hours to minutes.
- Designed and implemented a local RAG system for the automated analysis of 100+ documents, including PDF, CSV, and Excel files, ensuring data privacy while reducing query and analysis time from hours to minutes.
- Provided remote technical support for the maintenance and improvement of internal systems through data analysis and processing, using Python and AI tools to generate insights and support operational processes.

Latin American Institute of Educational Communication (ILCE)

Mexico City, México

Systems Engineering Intern / Software Development

2025 – 2026

- Led the migration and cleansing of more than 10,000 library records, developing Python scripts to automate manual data-processing tasks and reduce execution time from days to hours.
- Developed a data-processing workflow using Python, Pandas, and dbt, applying data cleansing, normalization, and validation processes to prepare records for migration to the target system.
- Developed Streamlit dashboards to monitor the migration process, providing visibility into processed records, errors, and inconsistencies for validation and quality control.

Technical Consultant & Freelance Developer

Mexico City, México

Independent Projects

2022 – 2025

- Developed a point-of-sale (POS) system for a coffee shop using React, JavaScript, HTML, and CSS, with a REST API built with Java and Spring Boot, SQL Server with JPA/Hibernate, and authentication implemented using Spring Security and JWT.
- Integrated MySQL and PostgreSQL into web applications for data storage and management, using SQL for data querying and manipulation.
- Developed LLM-based applications using LangChain to process information and enable natural language queries over documents.
- Developed web applications with Django, using Docker to configure and run application environments and GitHub for version control.

SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java.

Data & AI: Apache Airflow, dbt, PySpark, Pandas, ETL Pipelines, RAG, LangChain, LLMs, NLP.

Backend: FastAPI, Django, Node.js, REST APIs.

Frontend & Visualization: React, Next.js, Streamlit.

Databases: PostgreSQL, MongoDB, MySQL.

DevOps & Tools: Docker, Git, GitHub, AWS, Claude Code.

LANGUAGES

- **Spanish:** Native
- **English:** B2
- **Japanese:** N4

EDUCATION

Virtual University of the State of Guanajuato (UVEG)
B.S. in Computer Systems Engineering

Guanajuato, México
2022 – 2025