

# Jhoan Sebastián Franco Ruiz

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Github- JhoanSFranco

## Profile

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Student of Systems and Computer Engineering with experience as a Fullstack Developer (backend-focused) in a startup. Specialized in the design and development of REST APIs using Python (FastAPI, Django REST Framework), SQL and NoSQL databases, and microservices architecture. Experience deploying on Google Cloud Platform, using Docker, and integrating frontend applications with React. Strong interest in backend development, distributed systems, and software architecture.

## Skills

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- **Languages:** Python, JavaScript, Java, C++, R.
- **Backend:** FastAPI, Django, Django REST Framework, REST APIs, Object-Oriented Programming, Microservices.
- **Frontend:** React, HTML5, CSS3, Bootstrap.
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis.
- **DevOps / Cloud:** Docker, Git, GitHub, Google Cloud Platform (GCP).
- **Other:** Software architecture, ETL, Service integration.
- **Soft skills:** Effective communication, teamwork, critical thinking, continuous learning.

## Professional Experience

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**Software Developer** — Nodi (Startup) 08/2025 – Present

- Development of scalable REST APIs using Python and FastAPI for a recruitment system.
- Work with PostgreSQL, MongoDB, MySQL, and Cassandra databases.
- Implementation of business logic, ETL processes, and database migration.
- Integration of AI-powered services, use of Google Cloud Platform (GCP) and Docker, applying best practices and software architecture principles.

**Basic Programming Teaching Assistant** — Universidad Nacional de Colombia 02/2025 – 05/2025 and 07/2025 – 09/2025

- Academic support in the Basic Programming course for first-semester students of the Faculty of Engineering during the 2025-1 period.

## Academic Experience

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**Leroi Project** 08/2025 – 12/2025

- Design and implementation of REST microservices for a learning paths system.
- Integration with web frontend and deployment on Google Cloud Platform (GCP), using AI APIs.

**Tlön Research Group** 02/2025 – Present

- Active member of the research group in distributed systems and telecommunications networks.

**Academic Management System (SGA)** 02/2025 – 06/2025

- [Medium Article] Development of an MVP for an academic management system for Colegio Josué Manrique, applying the *SOFEA* architecture.
- Backend with Python and FastAPI, PostgreSQL and MongoDB, REST APIs, and deployment with Docker; frontend built with React.

**Internet of Things (IoT) Projects** 09/2024 – 03/2025

- Development of IoT solutions using Python, C++, and Arduino, integrating sensors, actuators, and embedded systems.

## Zenun Project

08/2023 – 11/2023

- Development of a prototype for student loan and event management.
- Developed using Django REST Framework, REST APIs, and business logic integrated with frontend.

## Education

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**Systems and Computer Engineering** — Universidad Nacional de Colombia

2021 – Present, Bogotá

**Technical Degree in Commercial and Financial Operations Accounting** — SENA

2021, Yopal

## Languages

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**Spanish:** Native   **English:** Upper-Intermediate (B2)   **French:** Intermediate (B1, learning)   **Italian:** Basic