Sebastian Gomez Sobrino

Github · Portfolio · Linkedin · +57 304 331 8606 · sebas60621@gmail.com

Developer specialized in scalable systems. I improved system performance by 40% through backend architecture optimization and database query tuning. I reduced server response times by 40% thanks to efficient API design and advanced deployment strategies.

PROFESSIONAL EXPERIENCE

HogarSalud IPS S.A.S   **Barranquilla, Colombia**
Software Developer   *March 2025–Present*

- Develop clinical platforms using **Django** and **MySQL**, integrated with frontends built in **React**, **HTML**, and **CSS** to manage patients, home visits, and clinical record generation.
- Integrate generative AI through the **OpenAI API**, creating intelligent assistants capable of answering medical queries, summarizing, and drafting clinical notes with automated recommendations.
- Implement **CI/CD pipelines** to automate clinical record generation and ensure efficient deployments connected to internal databases.
- Build data-driven solutions in **Python** for critical information analysis using **Pandas** and **Polars**, optimizing data structure and processing.
- Automate web processes with **Playwright** and **Selenium** for navigation, data extraction, and transformation.
- Implement advanced web scraping with **BeautifulSoup**, integrating structured and semi-structured data into internal systems.
- Maintain clean version control workflows using **Git** and **GitHub**, ensuring every change is versioned, reviewed, and production-ready.
- Build desktop interfaces with **Flet**, **PyQt6**, and **Tkinter**, combining UX/UI principles with backend logic.
- Create internal tools with **AppSheet**, including inventory management systems for pharmacies with full traceability and stock control.

Korner   **Barranquilla, Colombia**
Backend Developer   *October 2022–March 2025*

- Designed and implemented robust APIs using **Ruby on Rails**, optimized for both mobile and desktop applications.
- Developed scalable, distributed systems in the cloud, ensuring performance, availability, and reliability.
- Managed backend architecture and **PostgreSQL** databases on **AWS**, improving query efficiency and clinical data persistence.
- Wrote reliable code with automated tests, integrating **CI/CD** workflows with **GitHub Actions** to ensure consistent deployments, continuous validation, and greater development stability.
- Implemented payment gateway integrations to manage real-time transactions between clients and the application, with automatic synchronization of system state.

EDUCATION

CORPORACIÓN UNIVERSITARIA LATINOAMERICANA **Barranquilla, Colombia**
Faculty of Engineering *January 2022–Present*
Computer Systems Engineering

SKILLS

Python | Django | Ruby | Ruby on Rails | React | HTML | CSS | MySQL | PostgreSQL | AWS | Git | GitHub | CI/CD | API