

Luisangel Parra

Systems and Computational Engineering

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EXPERIENCE

MSc Project — *Fulda, Germany. Backend Team Lead* (OCT 2025—TODAY)

- Leading the design and implementation of the backend for a real-case web application, defining the architecture, database models and API contracts, and ensuring reliability, security and scalability of the services.
- Coordinate work with the frontend and DevOps teammates, review code, guide technical decisions and manage integration (APIs, database and Docker-based environment) to deliver a production-ready solution for the client scenario.

WIQONN — *Remote, Colombia. Software Developer* (APR 2025—MAY 2025)

- Designed and implemented a centralized news ingestion pipeline, integrating multiple external news APIs into a single backend service.
- Normalized and enriched articles by converting all publication timestamps to UTC, standardizing metadata and storing them in a unified database ready for search and analytics.
- Improved reliability and maintainability by adding error handling, monitoring and clear logging for failed requests, ensuring consistent, high-quality data for downstream products.

Uninorte — *Barranquilla, Colombia. DevOps Engineer* (JAN 2024—JAN 2025)

- Architected and implemented a scalable, secure server infrastructure and reverse-proxy-based web repository platform, including CI/CD pipelines for automated deployment and maintenance.
- Collaborated with university stakeholders to gather requirements, align the platform with student needs, and provide ongoing monitoring, issue resolution, and UX improvements.

EDUCATION

Universidad del Norte, Barranquilla: *BE, Systems and computational Engineering* (2021—2026)

- **ML-based early diagnosis of type 2 diabetes (Tesis)**: Developed a mobile application to estimate people's risk of type 2 diabetes at an early stage using simple health information, helping users and healthcare staff take preventive action sooner. The solution was validated with real data and deployed as a functional prototype; more info in the link below.

<http://hdl.handle.net/10584/13386>

Hochschule Fulda, *Fulda: Exchange MSc, Global Software Development* (2025—2026)

- **Advanced software engineering & architecture**. Study of distributed systems, cloud-native applications, and modern web & mobile development, with emphasis on scalable design and software quality.
- **International agile & DevOps collaboration**. Team projects in English/German using Scrum/Kanban, CI/CD, containerization and automated testing to design, implement and deploy real-world software solutions with international classmates.

SKILLS

Technical Skills: Proficient in **Python, Java, and JavaScript/TypeScript**, building backend services with **Node.js/Express, Django, and Spring Boot**, and RESTful APIs. Strong in **Machine Learning & Data**

Science using **scikit-learn**, **PyCaret**, **XGBoost**, **LightGBM**, **pandas**, **NumPy** and model deployment with **Docker**. Experienced in modern front-end development with **React**, **Next.js**, **React Native**, **Astro**, and **TailwindCSS**. Comfortable working with relational databases (**MySQL/MariaDB**, **PostgreSQL**) and DevOps practices such as **Docker Compose**, **Nginx reverse proxy**, and **Git/GitHub workflows**.

Spoken languages: Spanish (native), English (professional proficiency), and German (B1 – intermediate proficiency).