

Luis Fabián Calderón

Fullstack Software Engineer

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PROFESSIONAL PROFILE

Fullstack Developer with over 4 years of experience building SaaS products in production. Specialized in backend architectures with Node.js (Fastify, Express) and Python (FastAPI), GraphQL/REST API design, and relational databases with PostgreSQL. Actively participated in architecture decisions, legacy system migrations, and collaboration with multidisciplinary teams on institutional impact projects. Contributions range from technical definition to cloud deployment, with a focus on maintainable code, testing, and scalability.

SKILLS

Languages & Frameworks: JavaScript, TypeScript, Python, Node.js, Fastify, Express, FastAPI, React, Next.js, Astro, RedwoodJS.

Databases & APIs: PostgreSQL, MySQL, Prisma ORM, TypeORM, GraphQL, REST.

Cloud & DevOps: AWS (EC2, RDS, S3, IoT Core), Docker, Git, Jest Testing.

Others: MQTT, Apache Solr, HTML/CSS, Tailwind CSS.

EXPERIENCE

Fullstack Developer / *Datasketch*

Feb 2022 - Present

- Designed and implemented end-to-end SaaS application architecture using RedwoodJS, Prisma, and PostgreSQL, serving as the technical lead for data model decisions and GraphQL API structure.
- Led the technical definition and development of key high-impact institutional products, such as the Datasketch SaaS, the platform for the National Federation of Departments (FND), and *Biodiversity in Figures* (Humboldt Institute).

- Successfully replaced legacy architectures by migrating them to Next.js and Astro to optimize performance and static site delivery.
- Built robust, high-performance microservices using FastAPI and Fastify for efficient business logic processing.
- Collaborated directly with clients, end-users, and multidisciplinary teams, translating complex needs into technical requirements aligned with product goals.

Junior Java Developer / *CREANGEL Ltda.*

Oct 2021 - Jan 2022

- Designed and developed the backup module for the core *Ifindit* system from scratch, implementing dynamic user interfaces and server-side logic with Servlets and JSP.
- Enhanced the customer information search and indexing engine through the efficient integration and configuration of Apache Solr.

Industrial Systems Developer / *Industrial Automation & Informatics* Jun 2021 - Oct 2021

- Deployed the MQTT protocol on AWS infrastructure, achieving stable, real-time, and effective communication with industrial sensors.
- Created and launched an automated application for rebar counting in industrial plants, optimizing inventory control times.
- Audited, cleaned, and optimized MySQL databases, significantly increasing data integrity and query speed.

EDUCATION

Electronics Engineer

Nov 2019

Universidad Pedagógica y Tecnológica de Colombia

Software Development Diploma

Dec 2021

National University of Colombia - MinTIC

Computer Maintenance Technician

Nov 2012

SENA

CERTIFICATIONS & LANGUAGES

Radio Spectrum Management: TesAmerica

Spanish: Native | **English:** Intermediate