

Pedro Luis Lobato Barros

SOFTWARE DEVELOPER — BACK-END & ENGINEERING-FOCUSED

Bogotá D.C., Colombia

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"It's going to happen because I'm going to make it happen."

Summary

Motivated and pragmatic Software Engineer with practical experience in full-stack development and cloud architecture (AWS). Particularly strong in back-end systems, system architecture, and DevOps practices. Passionate about applying modern frameworks and exploring technologies like blockchain. Strong track record of delivering high-impact software, reducing technical debt, and implementing secure, scalable infrastructure in fintech and transactional systems.

Experience

Duppla

Bogotá, Colombia

SOFTWARE ENGINEER

Aug. 2024 – Present

- **Blockchain Integration:** Developing blockchain-based solutions using Hyperledger for secure asset tracking and investor transparency. Contributed to smart contract development and ledger architecture; expected to lead the next phase of the project post-MVP.
- **Evaluation Systems Optimization:** Drastically improved the performance of two core internal evaluation tools:
 - Client Evaluation:** Reduced execution time from **90 minutes to 2 minutes** by redesigning algorithms and optimizing data workflows.
 - Property Evaluation:** Cut down a 3-hour manual process to **under 45 minutes** via automation and system redesign. The automation core executes in **1.5 to 3 minutes**, significantly improving decision-making speed.
- **Internal Tooling:** Created an internal ticketing system to streamline operational and technical support tasks.
- **Cloud Architecture:** Assisted in the design and deployment of scalable infrastructure on AWS (EC2, S3, IAM), supporting reliable and secure cloud-based services.

Duppla

Bogotá, Colombia

SOFTWARE DEVELOPMENT INTERN

Jun. 2024 – Aug. 2024

- Improved performance of internal tools through refactoring, profiling, and data optimization.
- Laid the foundation for automation pipelines later adopted in full-scale production systems.

Note: Details of proprietary projects are generalized due to confidentiality agreements.

Selected Projects

Spring + Angular

CULTURAS GASTRONÓMICAS

Full-stack web application featuring list-detail views of culinary cultures around the world. Built using Java Spring for back-end and Angular for front-end. Implements best practices in RESTful APIs, component architecture, and responsive design.

Backend Repo | Frontend Repo

Java + Meta-programming

ALOHADES JDO

Advanced enhancement of a university transactional system template. Introduced modularity, metaprogramming patterns, and detailed documentation to support dynamic resource management. Improved system maintainability and educational value for related coursework.

Repo

Education

Universidad de los Andes

Bogotá, Colombia

B.SC. IN SYSTEMS ENGINEERING AND COMPUTER SCIENCE

2020 – Present

Key Courses: Arquitectura y Diseño de Software, Sistemas Transaccionales, Sistemas Empresariales, Diseño y Programación Orientada a Objetos, Infraestructura de Cómputo, Diseño de Productos e Innovación en TI

Achievements: Awarded scholarships.

Achieved 6th place in a university-wide Innovation Contest for a multi-platform academic planning and extension tool.

Skills

Python	FastAPI, Django, Polars, Pandas, SQLAlchemy, Pydantic
Go (Golang)	Hyperledger, ProtoBuf, gRPC
Java	Spring, Hibernate
JavaScript / TypeScript	Angular, Vue.js, Svelte, React, Next.js
C#	.NET, NHibernate
Rust	Beginner level – exploring systems programming
Databases	PostgreSQL, Oracle, SQLite, CouchDB, Supabase, Firebase, Kafka, BigQuery, DynamoDB, AWS S3
CI/CD & DevOps	GitHub Actions, Docker, Kubernetes
Cloud	AWS (EC2, S3, Lambda, IAM), Google Cloud (BigQuery, Cloud Storage)
Game Dev	Godot, GDScript
LaTeX	Document typesetting for academic and technical content
Languages	Spanish (Native), English (C1)