

Luis Angel Moreno Delgado

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EDUCATION

Science Faculty - UNAM

Bachelor of Science in Computer Science

Mexico City, Mexico

Aug 2023 – Present

- **Concentrations:** Backend Development, Machine Learning & AI.

TECHNICAL SKILLS

Languages	Java (JDK 17/21), Scala 3, Python, SQL, JavaScript (ES6+), HTML5/CSS3
Backend	Spring Boot (Security, Data JPA), Hibernate, Apache Pekko, FastAPI, RESTful APIs, gRPC
Tools & Cloud	Docker, AWS (EC2, S3, RDS), Render, Git, Maven, Postman, JUnit 5, Linux (Arch/Debian)
Data & AI	PostgreSQL, Redis, RAG, LangChain, Pandas, Scikit-learn, LLM Theory
Concepts	Data Structures, Algorithms, Microservices, Clean Architecture, SOLID, CI/CD, TDD, Agile

EXPERIENCE

Backend QA Engineering Intern

América Móvil

August 2025 - January 2026

Mexico City, Mexico

- Developed a custom **Bash** and **Postman - Newman** CLI tool to automate smoke testing workflows, generating HTML execution reports and reducing manual testing cycle time by **70%**.
- Engineered complex end-to-end API test scenarios and flows in **Postman**, manipulating cookies, headers, and JSON payloads to simulate authentic user sessions and validate stateful backend logic.
- Executed comprehensive regression, smoke, and stress testing strategies, designing test matrices and documenting critical bugs to ensure the stability of daily API releases.

PROJECTS

AtomicPulse (Data Engineering Pipeline) | Python, FastAPI, Pandas, SQLite, PyArrow 2026

Live: <https://atomic-pulse.onrender.com/>

- Engineered an end-to-end **ETL pipeline** to process US nuclear power outage data from the EIA API, implementing incremental extraction and optimal storage via **Apache Parquet**.
- Designed a Star Schema **Data Warehouse** and exposed processed metrics through a **FastAPI** RESTful interface with dynamic filtering, enabling automated outage classification.

dRAGan (AI Study Assistant) | Python, LangChain, Groq API, ChromaDB 2025, 2026

- Developed an intelligent study assistant capable of querying and reasoning over multiple technical PDFs using a **Retrieval-Augmented Generation (RAG)** architecture.
- Migrated LLM inference from local execution to cloud-based **Groq API**, drastically reducing response latency and enabling a scalable, production-ready deployment.
- Orchestrated document processing, **HuggingFace embeddings**, and semantic search via **ChromaDB** using **LangChain** to guarantee strictly context-grounded answers.

Personal Portfolio & Technical Blog | Astro, Tailwind CSS, TypeScript, GitHub Actions 2026

- Architected a high-performance, bilingual static portfolio and technical blog using the **Astro** framework and **Tailwind CSS**.
- Designed and implemented a fully automated **CI/CD** pipeline with **GitHub Actions**, enabling continuous deployment with zero downtime on every push.

LANGUAGES

Spanish: Native **English:** Intermediate (B1)