Luis Fernando Barrera

Senior Software Engineer and Manager

Python, TypeScript, Databases | Finance, Accounting, Business

Spanish (Native), English (C1), Portuguese (C1)

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About

16+ years of experience building high-performing teams and shipping complex systems in finance, banking, and data-intensive products. Expert in Python and Backend development; proficient in modern web stacks. Translate business and regulatory requirements into robust architectures and deliver reliable software at scale.

Jobs

Nubank — 2024-12-10 – 2025-09-12
Senior Software Engineer (Money-In Team) — Location: Remote and Mexico City

Building amazing experiences for our customers to bring money to Nubank in Brazil, Mexico and Colombia. Using Clojure, Datomic, microservices and other proprietary technologies from Nubank.

Sofía Salud — 2024-05-26 – 2024-12-09
Sr. Backend Engineer (Payments) — Location: Remote and Mexico City

Modernized payments and claims services in a Django/GraphQL monolith and introduced AI-assisted claims adjudication to streamline operations. Updated and refactored the monolith for all Sofia Salud's operations.

Banco Covalto — 2023-12-01 – 2024-03-15
Senior Engineering Manager (Integration and Legacy Services) — Location: Remote and Mexico City

Led backend and integration engineering (acting director) to define target architectures, align banking operations, and deliver critical integration.

Banco Covalto — 2022-05-01 – 2024-03-15
Engineering Manager, Data Engineer, Tech Lead — Location: Remote and Mexico City

Engineering Manager (Fincore/ESB Squad). Portfolio Migration Leader in all the quantitative data as a consultant and Data Engineer.

Credijusto (now Banco Covalto) — 2020-02-24 – 2022-04-30
Python Data Engineer — Location: Remote and Mexico City

Python/Django programmer working in the Financial Core (Fincore) team.

Technical Skills

Technical: Backend: Python, TypeScript, Django, FastAPI, Flask, Django REST Framework, REST API, GraphQL · **Databases:** pandas, dataclasses, numpy, SQLAlchemy, advanced SQL, PostgreSQL, SQLite3 · **Frontend:** JavaScript, TypeScript, Vue.js, React, HTMX, SASS · **Infrastructure:** AI-Powered Coding, docker, kubernetes, observability with Grafana, bash, linux, CircleCI, continuous integration

Leadership & Management: Team Building, Okrs And Kpis, Mentoring, Devops, Agile Methodologies, Product Requirements, Software Architecture & Design, Project Management

Business Domain: Administration, Accounting, Finance, Software For Smb, Erp, Crm, Taxes, Electronic Invoicing, Electronic Signature, Financial Math

Education

Bachelor in Economics — UNAM (2010-08-01 - 2013-05-20)