

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.

Sofia 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 (CFDI), electronic signature, financial math

Key Projects

Treasury API

Banco Covalto

Treasury API to expose movements to bank customers

kafka · django · accounting · reconciliation systems · product design · webhooks · customer requirements · autho · regulations & compliance

Real-time bank account movement queries via REST API or Webhook. Integrated with financial core vía Kafka and services

firmas / mifiel

Banco Covalto

Electronic Signature System

fastapi · postgresql · mifiel · web development · tortoiseorm · e.signature · blockchain · aws · google cloud · kubernetes

A monolith of services to gather documents for signature, integrate with salesforce and other systems and allow the signature of documents with a mexican electronic fiscal signature.

Pennyworth

Covalto, Inc.

A full-fledged multipurpose financial and accounting library.

business data · financial math · accounting · financial libraries · dataclasses · pandas · jupyter

Kardex

Credijusto & Covalto, Inc.

A system designed to make calculations on loans

business data · sqlalchemy · financial math · accounting · dataclasses · pandas · jupyter · sqlite3

This CV

Curriculum Vitae Production System

A system that builds a Github page with my CV, including a PDF.

Experos

Nextor Telecom

Custom ERP with Accounting Functionality

Education

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