

# 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, 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)