

Luis Fernando Barrera

Senior Software Engineer and Manager

Finance, Accounting, Business and Python and TypeScript

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About

Senior Software Engineer and Engineering Manager with a track record building high-performing teams and shipping complex systems in finance, banking, and data-intensive products. Expert in Python and Backend development and; proficient in modern web stacks. I 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

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.

- Worked in a full-stack environment using Clojure to deliver in-app experiences with the Nubank's proprietary framework in Clojure / Flutter (BDC).
- Used knowledge of banking systems in Brazil (Pix, TED, Boletão), Colombia (Bre-B, ACH, PSE), and Mexico (SPEI) to help solve problems in the Nubank microservices.
- Delivered hybrid app / widget in React and Clojure to help the CX team to check details of the transfer-in transactions in Colombia and Mexico, connecting them to the relevant microservices and GraphQL platforms

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.

- Refactoring code and implementing new features
- Working to improve the codebase and the architecture of the project, CI/CD, libraries, etc.
- Doing refactorings on a big monolith codebase related to payments and claims.

Led backend and integration engineering (acting director) to define target architectures, align banking operations, and deliver critical integration and signing services. Kept the role of Manager and Technical Leader with a hands-on approach and programming and structuring code when necessary.

- Assumed the responsibilities of the Director of Banking Services Engineering to design the technical architecture considering the functional architecture designed by the CTO. Served as a liaison between Financial Product Managers and other people in Operations such as the Chief Operations Officer, the Legal Team and Sales to translate those requirements to Technical teams reviewing needs and ideas and creating or reviewing projects and their specifications.
- Proposed solutions to various integration issues and systems within the Bank by leveraging the capabilities of all teams and compensating for their weaknesses through the use of components such as aligning catalogs and data types. Discussing things like the implementations of BIAN (Banking Industry Architecture Network).
- Led the design of two new operation architectures and ideal one with minimal changes and another tailored to the budgetary, temporal, and functional constraints of the bank, always seeking to optimize best engineering practices and address the bank's technological and operational challenges.

Skills

clojure | clojurescript | re-frame | reagent | datomic | datascript | pandas | dataclasses | numpy | SQLAlchemy
advanced SQL | PostgreSQL

Languages

Spanish **English** **Portuguese**
Native C1 C1

Education

Bachelor — Economics **UNAM**
2010-08-01 – 2013-05-20