Juan Paulo Pérez-Tejada

BACK-END ENGINEER

Mexico City, Mexico | maclenn77@gmail.com | GitHub | HuggingFace | LinkedIn | Portfolio

SUMMARY

Back-end engineer with over four years of professional experience in Ruby, Python and SQL. Consultant for clients in the United States, working remotely. Has built e-commerce integrations, data pipelines and generative AI applications. Continues data engineering work with PySpark and RAG. Master's student in Applied Artificial Intelligence. Winner of the first Generative AI Hackathon in Mexico.

SKILLS

Languages & Libraries: Ruby, Python, SQL, JavaScript, HTML5, CSS3, Ruby on Rails, RSpec, NextJS, PySpark, SQLAlchemy, LangChain, Hugging Face Transformers, MySQL, PostgreSQL, SQL Server
Cloud: GCP (BigQuery, Compute Engine, Databricks), AWS (S3, AWS Lambda, DynamoDB, CloudFront), Azure, Snowflake, Heroku, Netlify
Tools & Methods: RAG, LLM APIs, HTR (TrOCR, Kraken), Claude Code, DBT, Git, GitHub, Mobile/Responsive Development, TDD, Docker, Agile, SCRUM
Professional: Remote Pair-Programming, Teamwork, Mentoring, Translation, Writing
Languages: Spanish (native), English (professional), Swedish (beginner)

EXPERIENCE

SELECTED PROJECTS

Colonial Valley Zapotec HTR | Dataset | Model — Dataset of line images and transcriptions from colonial Zapotec and Spanish manuscripts, and a fine-tuned TrOCR model for handwritten text recognition. Test character error rate fell from 68.8% (pretrained model) to 13.6% with 10-beam decoding and right-to-left reranking.
Built with: Python, PyTorch, Hugging Face Transformers, Kraken

Silicon Valley Peace Conference — Online talk, September, 2026: "Reclaiming Indigenous Representation through Generative AI: Case Studies from Zapotec and Maya Language Education in Mexico."

GnosisPages | Github | Live — A RAG assistant that explains the content of a PDF file.
Built with: Python, Langchain, ChromaDB, HuggingFace. AI Academy Capstone Project

AI Tutoring Bot | Github | Live — AI Tutoring Bot is a Telegram Bot designed to assist high-school students with their studies. AI Academy Capstone Project.
Built with: Python, AWS Lambda, DynamoDB, Telegram API

Ruby Gen AI Template | Github — A template for building AWS LambdaFunctions with Ruby, powered by LLMs.

APEX SYSTEMS — Mexico City, Mexico
Consultant (Back-End Engineer) — January, 2026 – Present

E-commerce project — Update company plans and modernize checkouts.

- Built with: Ruby, GCP, Zuora API, Claude Code

APEX SYSTEMS — Mexico City, Mexico
Consultant (Data Engineer) — August, 2023 – November, 2025

Duluth Trading Company — Maintained ETL pipelines over 50+ tables from 5+ data sources. Automated table documentation with an LLM.

- Built with: SQL, Python, BigQuery, GCP, DBT, Gemini 1.5

APEX IT — Perform complex queries with SQL Server intended to be used with Power BI, and automate common tasks with Python and Jupyter Notebooks.

- Built with: Python, SQL, SQL Server, Azure Data Studio

APEX SYSTEMS — Mexico City, Mexico
Consultant (Full-Stack Developer) — July, 2023 – December, 2025

Innovation Lab — Refactor and develop a Talent Management platform for helping executives to identify flight risks, promotions or other business metrics.

- Built with: Ruby and Rails, Ruby, MySQL, Azure, Docker, React, JavaScript

APEX SYSTEMS — Mexico City, Mexico
Consultant (Ruby Developer) — June, 2022 – June, 2023

Channel Integrations — Integration of an e-commerce platform with Points of Sale and Meta Apps, allowing merchants to adopt an omnichannel strategy.

- Built with: Ruby on Rails, PostgreSQL, Heroku, Square API, Clover API, Meta API.

Other activities at Apex Systems

- Outstanding Ambassador. Mentored new hires.
- Speaker at DevTalks, Relevant Talks and Ruby MeetUps.

MICROVERSE — Remote
Code Reviewer — March, 2022 – June, 2022

- Mentored 5 junior web developers with 3 code reviews per week.
- Proposed improvements to code organization to improve code quality and overall performance.

National University of Mexico — Mexico City, Mexico
Technical Assistant in Media Department — April 2016 – June 2018

- Created protocols for reports to measure the impact of publications.
- Researched and verified info for publications.

LITS Ebusiness — Mexico City, Mexico
SEO Writer and ebusiness journalist — February 2015 – March 2016

- Created content for e-commerce platforms with SEO

EDUCATION

Monterrey Institute of Technology and Higher Education
Master in Applied Artificial Intelligence — September, 2025 – August, 2027 (expected graduation date)

- Coursework projects with PySpark. Supervised regression and K-Means clustering on NYC taxi data.

Chalmers University of Technology — Gothenburg, Sweden
Exchange semester — August, 2026 – January, 2027

MICROVERSE — February, 2020 – April, 2022
Remote Full Stack Web Development Program, Full Time

- Spent 1300+ hours mastering algorithms, data structures, and full-stack development while simultaneously developing projects with Ruby, Rails, JavaScript, React, and Redux.
- Developed skills in remote pair-programming using GitHub, industry-standard git-flow, and daily standups to communicate and collaborate with international remote developers.

National School of Anthropology and History
Linguistics — January, 2007 – December, 2011