

# Pereyra Nehuen

Senior Full Stack Developer



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## Summary

Senior Full Stack Developer with over 8 years of experience in web, backend, and blockchain development. Specialized in fintech platforms and multilevel business models, with experience in projects with millions of active users where I led performance and scalability optimizations. I incorporate AI agents, RAG, and MCP with prompt engineering to maximize team productivity, including the development of skills and agent workflows. Consolidated skills in technical leadership, problem-solving, and mentoring development teams.

## Skills

**Languages:** JavaScript, TypeScript, Python, SQL, HTML, CSS

**Frontend:** React, Vue.js, Next.js, Nuxt, TanStack Start, Tailwind CSS, Vuetify, D3.js, React Flow

**Backend:** Node.js, FastAPI, Flask, GraphQL, Strapi

**Blockchain:** Solidity, Viem, Ethers.js, Hardhat, OpenZeppelin

**AI & Agents:** Mastra, Crawl4ai, PgVector, RAG, MCP, LLM Integration, Prompt Engineering

**Databases:** MySQL, PostgreSQL, MongoDB

**Testing:** Vitest, Chai.js, Cypress

**DevOps:** Git, Docker, CI/CD Pipelines

## Education

- **Computer Engineer** [🔗](#) - UNLP (National University of La Plata). Distinction for the highest GPA in the Faculty of Informatics-Engineering [🔗](#)
- **University Programmer Analyst** [🔗](#) - UNLP. Outstanding Graduate Recognition [🔗](#)

## Work Experience

- **Assistant Professional** - IALP (La Plata Institute of Astrophysics) CONICET-UNLP  
*Argentina, La Plata · On-site · December 2023 - Present*
  - Built a *comprehensive personnel management platform* for public research institutions, featuring a *segmented notification system* by role, area, or research group, and customizable institutional public profiles.
  - Designed and implemented from scratch the *HPC Cluster GAMA (FCAG-IALP)* using *Slurm Workload Manager*, providing access to specialized computational resources for multiple research groups in astronomy, geophysics, and meteorology.

- Developed a *RAG platform* for specialized astronomy knowledge assistance, currently used in *scientific outreach and educational training initiatives*.
  - Provided *support and evolution* for deep learning-based spectrographic plate digitization software, developed during the previous PPS.
  - Assisted researchers in developing scripts and applications for *astrophysical analysis* applying *deep learning techniques*.
- **Senior Full Stack Developer** - Xirect Software Solutions  
*United States, Utah · Remote · November 2021 - Present*
    - Started as a *frontend developer* and evolved into a *full stack profile* assuming backend and QA responsibilities, ensuring timely delivery of critical features and consolidating my current role as *Senior Full Stack Developer*.
    - Led a *team of 5 frontend developers*, coordinating with backend, QA, and commissions teams, managing sprints and releases for up to 4 simultaneous products in production, accumulating experience in *12 projects* since joining the company.
    - Implemented a *crypto payment gateway* integrating *3 blockchain networks* (Ethereum, Binance Smart Chain, and Tron), handling everything from user wallet creation to on-platform payment processing.
    - Developed *fintech and multilevel platforms* with multiple *purchasing flows* and payment method integrations (PayPal, Stripe, crypto).
    - Optimized *D3.js and React Flow visualizations*, including a *dynamic tree* supporting 2 million users, improving performance and user experience in *interactive dashboards*.
    - *Technical reference* for the team, *mentoring over 10 developers* over time on frontend frameworks, blockchain architecture, and internal company workflows.
  - **Full Stack Developer & Deep Learning** - Computer Science Research Institute LIDI (III-LIDI) and Faculty of Astronomical and Geophysical Sciences at UNLP  
*Argentina, La Plata · Hybrid · September 2021 - February 2022*
    - Trained a *deep learning* model for *stellar spectra classification* and developed integrated software, allowing researchers to identify spectra on spectroscopic plates and load their metadata, significantly reducing manual analysis time [↗](#)
    - **Achievement:** Awarded a Type A Service university scholarship in recognition of the work performed during the supervised professional practice (PPS) [↗](#)

## Languages

- Spanish: Native proficiency
- English: B1 (Intermediate) — CEFR

## Certifications

- Bootcamp Blockchain from Zero to Expert — Udemy, 2023
- CI/CD with GitLab — EdTeam, 2022

## Publications

- Deep Learning for Astronomical Applications, Computer Vision, and Medical Systems — XXIV Workshop of Researchers in Computer Science (WICC), Champagnat University, April 2022