

PABLO CRUZ, MBA,

Mexico City, Mexico | +52 55 1069 9160 | pablo.cruz.lemini@gmail.com
GitHub: github.com/portfedh | Portfolio: <https://pablocruz.io/> | LinkedIn: [linkedin.com/in/pablocruzlemini](https://www.linkedin.com/in/pablocruzlemini)
Languages: English (Fluent), Spanish (Native)

SOFTWARE & DATA ENGINEER

Software and data engineer with 7+ years building and shipping production systems and 10+ years in financial management. Currently a Vice President in BlackRock's Data Strategy & Solutions (PMG Tech) team, where I own the Mexico City data platform serving the Portfolio Management Group — designing scalable data pipelines and platform services on Snowflake and Google Cloud, driving observability and data quality, and leading the team's adoption of AI and agentic tooling. Strong combination of hands-on engineering, cloud-native architecture, and deep financial-services domain knowledge.

PROFESSIONAL EXPERIENCE

BlackRock - Vice President, Data Strategy & Solutions **Mexico City, Mexico | Feb 2026 - Present**

Own and lead the Mexico City Data Platform (Unified Data Layer) for BlackRock's Portfolio Management Group (PMG), building self-service data pipelines and platform services on Snowflake and Google Cloud consumed by investment research and AI teams. Manage and mentor a team of engineers.

Redesigned the Unified Data Layer (UDL) architecture for scalability and reliability — multi-stage orchestration, failure recovery, retry logic, and deduplication — packaged as an SDK and templates so engineering pods can onboard new data sources self-service.

Designed and shipped a pipeline observability and logging framework (structured multi-stage logs, traceback capture, validation logic, and per-error escalation ladders) and secured cross-team Ops Intelligence sign-off for rollout.

Standardized the team's Snowflake pipelines: implemented views and dynamic tables for latest-record and deduplication handling, authored backfill playbooks, and introduced custom-column hashing to eliminate duplicate records.

Drive the team's AI and agentic adoption mandate — MCP servers, Skills, and CLI coding assistants (GitHub Copilot, Gemini, Codex) — to make the platform AI-ready for downstream research and GenAI workloads.

Partner with US-based stakeholders (PMG, AI Labs, Ops Intelligence) on architecture reviews, requirements, and release-path migrations from Snowflake Dev to Production, while building CDMX team cohesion and engineering best practices.

Bite Size SA de CV - Software Engineer **Mexico City, Mexico | Jan 2020 - Feb 2026**

Selected Projects:

Bank of Mexico (CoDi - Código Digital) API: <https://docs.bite-size.mx>

- Built a Node.js + Express API to enable real-time peer-to-peer digital payments via CoDi.
- Eliminated transaction fees and settlement delays for over 5,000 monthly sales.
- Released the project as open source under the Apache-2.0 license, promoting transparency and adoption.

AI Property Management Application Screener <https://www.daysaver.ai>

- Created an AI-based rental application screener for property management companies.
- Reduced screening time from 7 days to 1 day by automating document analysis and decision scoring.

Salsa Candela SA de CV – Dance Academy ERP System and Mobile Apps <https://salsa-candela.com>

- Designed and built an ERP platform with two mobile applications (web, Android, iOS).
- Reduced administrative workload by 70% across 5 branches serving 5,000+ monthly users.

Investment Portfolio Financial Dashboard https://github.com/portfedh/portfolio_grafana

- Automated data collection across multiple bank accounts, eliminating manual entry errors.
- Consolidated financial data into a real-time dashboard using Python, Docker, SQLite, and Grafana.

Financial Reporting Automation https://github.com/portfedh/fundamental_analysis_report

- Automated monthly financial reports using Python and the Financial Modeling Prep API.
- Reduced 40+ hours of manual reporting per week, supporting value-investing decisions.

IoT Monitoring and Automation Projects <https://github.com/portfedh/CurrentSensorsMQTT>

- Developed IoT systems for industrial water level and energy consumption monitoring.
- Achieved 99.5% uptime using Python, C++, MQTT, Node-RED, InfluxDB, and Grafana.

Full financial oversight of a family office with over 300mn USD in total assets.

- Developed and maintained a 150mn USD passive investment portfolio. Defined the asset allocation strategy and individual securities, selected custodians, negotiated fees, and implemented a robust investment policy that includes rebalancing, financial controls, tax-exemption strategies, generating a 6mn USD annual cost reduction.
- Implemented a board of directors to oversee the family business finance operations and philanthropic donations. Introduced a systematic process to improve day-to-day management. Facilitate board decisions by creating structured detailed reporting mechanisms for reviews of best practices.
- Applied knowledge of management consulting to design and administer a data analysis system to handle investment data, including assets, banking, contracts, processed invoices, accounting, loans, budgets, and project management documents. Generated insightful analytics resulting in 1 mn USD annual savings.
- Oversee estate planning, ensuring a seamless wealth transfer to the next generation while minimizing cost of financial activities, administrative complexity, and eliminating a 40 mn USD estate tax burden. Leveraged extensive knowledge of the banking system to recommend optimized investment strategies.
- Successfully guided the founder through a complex private equity divestment of over 4mn USD, resolving strained relationships with the investee party while maintaining professionalism and strategic negotiation.
- Managed two lengthy tax audits, each spanning approximately two years, culminating in company learning, optimized financial potential, and favorable outcomes with no changes, penalties, or interest charges.
- Facilitated the handoff of the business to the next generation by building inclusive, open and empathetic teams, empowering them to take ownership, and integrating them into key operational decision-making processes while holding regular meetings to facilitate knowledge transfer and address concerns.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, SQL, Bash
- **Data Engineering & Cloud Data:** Snowflake (views, dynamic tables, backfills), Google Cloud Platform (BigQuery, Cloud Storage, Pub/Sub, Cloud Functions, Compute Engine), data pipelines, ETL, observability & logging
- **AI & Automation:** GenAI / agentic tooling, MCP servers, AI coding assistants (Claude, GitHub Copilot, Gemini, Codex), process automation
- **Frontend:** React.js, Next.js, HTML, CSS, EJS, React Native
- **Backend:** Node.js, Express.js, REST APIs, GraphQL
- **Databases:** MongoDB, MySQL, SQLite, PostgreSQL, InfluxDB
- **Cloud & DevOps:** Docker, AWS (S3, EC2), GitHub Actions, CI/CD
- **Data Analysis & Visualization:** Pandas, NumPy, Jupyter Notebook, Grafana
- **Testing:** Unittest (Python), Jest (JavaScript), Soda Core
- **Version Control:** Git, GitHub.
- **Financial Tools:** Excel, Quickbooks, FMP API, Yahoo Finance API, financial modeling and analysis
- **Methodologies:** Agile, Scrum
- **Operating Systems:** Linux, MacOS, Windows

EDUCATION

Technological Institute of Mexico (ITAM)

Master of Business Administration (MBA), Emphasis on Corporate Finance

Oct 2010 - Oct 2012

The National Autonomous University of Mexico (UNAM)

Bachelor of Science, Research & Experimental Psychology

Jan 2006 - Dec 2010