

Juan Ignacio Padilla Barrientos

San José, Costa Rica

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PROFESSIONAL SUMMARY

Strategic Data Engineer and Mathematician with a Master's degree in Computer Science, specialized in business analytics and financial data strategies. Proven track record in designing high-impact cloud data architectures and overseeing analytical digital products that drive global business strategy. Experienced in leading technical initiatives, ensuring data quality, and implementing advanced statistical models (AI/ML). Strong background in mentoring and communicating complex technical concepts to stakeholders. Seeking to leverage expertise in data architecture, compliance, and team leadership to drive business results at Citi.

EDUCATION

Université Paris Cité

Paris

2021

Master's degree: Mathematics & Computer Science (M2 LMFI)

Graduated with high honors.

- Focus: Mathematical models, Logic, Foundations of Computer Science.

Universidad de Costa Rica

San José

2019

Bachelor's degree: Mathematics

Graduated with honors.

Languages: English: C2 (Fluent) — French: B1 (Intermediate) — Spanish: Native

EXPERIENCE

Procter & Gamble, IT

Costa Rica

Data Engineer

07-2023 – Present

- **Strategic Data Management:** Lead the design and implementation of analytical digital products supporting global business strategy and decision-making for financial analytics and retail execution.
- **Platform Leadership:** Top contributor and technical lead for a cloud data platform, ensuring robust architecture, data quality, and stability for global and regional reporting.
- **Advanced Analytics & AI:** Direct the deployment of AI pilots (generative and predictive models), utilizing advanced statistical techniques to drive substantial business results.
- **Governance & Excellence:** Manage IT processes, monitoring protocols, and organizational excellence initiatives, ensuring compliance with internal standards and driving operational efficiency.

Hakkoda (IBM)

Remote/Costa Rica

Associate Data Engineer

09-2022 – 07-2023

- **Client Relationship Management:** Delivered cloud-based data infrastructure for high-level consulting projects, managing stakeholder requirements and technical deliverables.
- **Architecture & Pipelines:** Designed and maintained complex ETL/ELT pipelines and data transformations, ensuring high data integrity for business intelligence outputs.
- **Problem Solving:** Resolved complex data infrastructure issues to support client analytics and decision-making processes.

École Normale Supérieure

Paris

Research Internship

04-2021 – 09-2021

- **Research & Modeling:** Conducted basic research on mathematical models applied to computer science, demonstrating capacity for deep analytical thought and creative problem solving.

Universidad de Costa Rica

San José

Professor

06-2019 – 08-2022

- **Team Leadership & Mentoring:** Supervised and educated groups in Python programming, numerical/statistical methods, and calculus, demonstrating strong communication and people management skills.
- **Curriculum Management:** Planned and executed course actions and resources, evaluating performance and managing academic standards.

SKILLS

- **Data & Information Management:** Production-level SQL (compliant with industry standards), Dimensional Data Modelling, Database Architecture, Data Quality & Governance.
- **Analytical Strategies:** Python (NumPy, Pandas) for statistical data analysis, Machine Learning principles (Predictive/Generative models), Financial Analytics.
- **Big Data & Cloud:** PySpark (Parallel computing, Cluster optimization), Databricks (Data Lakes/Warehousing), Azure, GCP, ADF.
- **DevOps & Project Management:** CI/CD (GitHub), Agile/Scrum methodologies, Jira (Backlog management and project cycles).

CERTIFICATIONS

- **Databricks:** Data Engineer Professional
- **Microsoft Certified:** Azure Data Fundamentals