Contact

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Top Skills

Software Project Management
Telecommunications
Project Management

Languages

English (Professional Working)

Certifications

IA Generativa
Microsoft Certified: Azure Data Fundamentals
Programa de Estudios Avanzados en Teología
Microsoft Certified: Fabric Analytics Engineer Associate

Pedro Bonillo Ramos

Tech Lead @ Hiberus | Big Data, Artificial Intelligence
Montevideo, Montevideo, Uruguay

Summary

As a Tech Lead and Data Architect at Hiberus, a premier IT consulting firm, I have been spearheading and developing innovative data solutions for diverse clients since July 2023. I hold a PhD in Computer Science, a Master's Degree in Software Engineering, and an MBA, along with multiple certifications in Remedy, DataStax, and ITIL. With over 25 years of professional experience in information technology and more than 20 years as a university professor of computer science, my expertise is extensive and multifaceted.

My key competencies encompass data mesh, green software, big data patterns, data science, data warehousing, data lakes, lakehouse architecture, and a variety of programming languages and platforms including Python, Java, Scala, R, Spark, Kafka, Databricks, AWS, GCP, and Azure. I am dedicated to implementing data-driven solutions that enhance data architectures, improve data quality, and deliver significant business value.

Fluent in both Spanish and English, I excel in communication and collaboration. My mission is to empower my team, clients, and students with cutting-edge best practices and tools in the data domain.

Experience

hiberus

Tech Lead: Data Architect and Azure Tribe Leader
July 2023 - Present (1 year 2 months)
Valencia/València, Comunidad Valenciana / Comunitat Valenciana, España

Projects: Near To Real Time Kafka, Databricks and PBI Reports for Planasa; Azure Open AI Chat Havas; Informix integration with Databricks SQL Warehouse for Egasart; Data Lake Fundae, Databricks for Icex, Azure Fabric POC, GCP Data in Prisma, Tur España.

Team: 5 Data Leader, 5 Team Leader Data Engineer, 3 Senior Data Engineer and 6 Junior Data Engineer's.

Completed tasks:
• Understand the structure, size and format of data and the underlying technical framework.
• Capture, process, manipulate and manage data architectures across multiple clouds and on premises.
• Make data insights easy for everyone to read and interpret.
• Support and enrich qualitative research with insights from quantitative data.
• Analyze opportunities and problems to drive company prioritization and strategy.
• Validate new hypotheses with a deep understanding of Data Architecture.
• Help develop the culture of data-driven decisions.

Tools: SQL Server, Zookeeper, Kafka, Kafka Connect, Databricks, Delta Lake Change Data Capture, Change Data Feed, Power BI, Azure AI Services, Cognitive Services, OpenAI Studio, Networking, Informix, AKS, Docker, App Service, Active Directory , Register Container, Key Vault, Purview, SAP, Fabric, Workbench, Data Proc, Dataform, BigQuery, Spark, Scala, Airflow, Composer, Rundeck, Kinesis Data Stream, Kinesis Firehose, DMS, Aurora RDS, Glue, Athena, Azure Data Factory, Snowflake, Data Map, Azure Data Lake, Pandas, scikit-learn, MLLIB, Azure Logic App, Azure Functions, Lambda Functions, SNS, S3, Cloud Storage, Lake Formation, IAM, Postgresql, Dynamo, MongoDB, Cassandra, SSAS , SSIS.

Pomelo
Data Expert @ Pomelo
March 2022 - April 2023 (1 year 2 months)
Montevideo, Uruguay

Project: Data Lake & Lakehouse AWS Cloud at Pomelo. Data Mesh and self-service through data contracts and cloud formation and terraform automatization.
Team size: 1 Data Manager, 1 Team Leader BI, 1 Staff BI, 1 Senior BI Analyst, 1 Data Engineer Leader, 1 Data Engineer Staff, 2 Data Engineer Senior, and 1 Data Engineer Junior.
Tasks performed:
• Understand the structure, size, and format of the data and the underlying technical framework.

• Capture, process, manipulate, and manage activities in their respective Cloud and On-premises architecture.
• Advise on in Data Mesh, Big Data, Machine Learning, and Deep Learning.
• Lead and develop a team of data analysts and data scientists on AWS.
• Manage Big Data solutions related to customers' behavior.
• Make data insights easy to read and interpret by everyone.
• Support and enrich qualitative research with quantitative data insights.
• Analyze opportunities and problems to drive company prioritization and strategy.
• Validate new hypotheses with deep understanding.
• Help evolve our culture of data-driven decisions.
Tools: AWS RDS, Lambda Functions, SQS, SNS, DMS, Kinesis Data Streams, Kinesis Firehose, Kinesis Data Analytics, S3, EMR, Spark Structured Streaming, Lakehouse Databricks Library, Airflow, Pyspark & Glue workflows, jobs, crawlers, tableau, superset.

Universidad ORT Uruguay
5 years 8 months

Professor of Real-Time Big Data Analytical Architecture
January 2018 - March 2023 (5 years 3 months)
Cuareim 1451 Montevideo, Uruguay

Professor Apache Kafka, Scala, Spark Streaming, Spark MLIB, Hadoop, Hive, Pig, Solr, Hadoop User Experience, Rstudio Server & Jupyter Notebook with pythons 2 & 3

Professor of Machine Learning
April 2018 - October 2018 (7 months)
Cuareim 1451 Montevideo, Uruguay

Professor in charge of the R Workshop for Machine Learning

Professor of Big Data Governance
August 2017 - September 2018 (1 year 2 months)
Cuareim 1451 Montevideo, Uruguay

Big Data governance is part of a broader data governance program thatformulates policy relating to the optimization, privacy, and monetization of big data by aligning the objectives of multiple functions

dLocal
Senior Data Engineer Leader
November 2019 - February 2022 (2 years 4 months)
Uruguay

Project: Data Lake on AWS for processing 100 million rows per day, including velocities fraud calculations
Team size: 1 Data Manager, 1 Data Team Leader, 2 Data Engineer Senior, 1 Data Engineer Junior, 2 Senior Fraud Analyst.
Tasks performed:
• Advise on Big Data, Machine Learning, and Deep Learning.
• Lead and develop a team of data analysts and data scientists.
• Manage Big Data solutions related to customers' behavior.
• Make data insights easy to read and interpret by everyone.
• Support and enrich qualitative research with quantitative data insights.
• Analyze opportunities and problems to drive company prioritization and strategy.
• Validate new hypotheses with deep understanding.
• Help evolve our culture of data-driven decisions.
Tools: AWS RDS, Kafka, Lambda Functions, SQS, SNS, DMS, Kinesis Data Streams, Kinesis Firehose, Kinesis Data Analytics, S3, EMR, Spark Structured Streaming, Airflow, Pyspark & Glue workflows, jobs, crawlers, quick sight, looker.

PedidosYa
Big Data Architect & Machine Learning & Deep Learning
August 2018 - November 2019 (1 year 4 months)
Plaza Independencia. Hotel Radisson. Piso 8. Montevideo. Uruguay.

Project: Data Lake on AWS & GCP
Team size: 1 Data Manager, 1 Team Leader BI, 1 Senior BI Analyst, 1 Data Engineer Leader, 2 Data Engineer Senior, and 1 Data Engineer Junior.
Tasks performed:
• Build and train on clusters for Data Lake on AWS EC2 Platform with Apache spark, Hadoop, Hive, Yarn, Pig, Hue, Airflow, Elasticsearch, Solr, Atlas, Amundsen Lyft, RStudio server, Jupyter hub and Jupyter notebook on Python 2/3.
• Consult on current processes in the Business Intelligence on Redshift.
• Focus on scalability, availability, and maintainability of Big Data ecosystems.
• Propose new functionalities and improvements over existing ones, specifically on identification users on polygon areas in near to real-time.
• Propose technologies that positively influence systems, evaluating other big data platform: AWS, Google, and Microsoft Azure.
• Build and train on Machine Learning processes for restaurant classification, clustering users, forecasting orders, and Deep Learning process for dishes classification.

Tools: GCP Data flow, Dataproc, Spark, Pub-Sub, Big Table. AWS RDS, Lambda Functions, SQS, SNS, DMS, Kinesis Data Streams, Kinesis Firehose, Kinesis Data Analytics, S3, EMR, Spark Structured Streaming, Airflow, Pyspark & Glue workflows, jobs, crawlers, quick sight, looker. GitHub, Jira,

Scanntech

Big Data Technical Leader at Scanntech

July 2017 - August 2018 (1 year 2 months)

Duvimioso Terra 1975, Montevideo, Uruguay

Project: Data Lake on-premise in Antel Data Center with Apache Big Data tools.

Team size: 1 Data Manager, 1 Team Leader BI, 1 Data Engineer Senior, and 1 Data Engineer Junior.

Tasks performed:

• Worked as a Big Data Technical Leader, responsible for creating enterprise-wide BI solutions.

• Analyze large data sets and develop automated analytics to assist decision-makers with making sense of data.

• Develop machine learning, data mining, statistical, and graph-based algorithms to analyze massive data sets.

• Analyze a POS system's actual and predictable interacting operational activities to obtain a quantitative, rational basis for decision-making or resource allocation.

• Leverage modeling and measuring techniques, mathematics, statistical methods, engineering methods, operational mathematical techniques, and other principles and laws of scientific and economic disciplines in determining solutions and developing scripts that extract information from a variety of data formats, including Hadoop, Spark, Hive, Solr, HUE, SQL tables, structured metadata, and unstructured data.

• Produce Tableau data visualizations that provide insight into data set structure and meaning. Develop and implement statistical, machine learning, and heuristic techniques to create descriptive, predictive, and prescriptive analytics.

Tools: Apache Hadoop, Apache Spark, Askaban, Talend, Tableau, GitHub, Jira.

PhD Consultores C.A.

Chief Technical Advisor

November 2014 - June 2017 (2 years 8 months)

Av. Francisco de Miranda

Project: Data Lake Banesco, Data Lake BCP, Data Lake Pernod Ricard
Team size: 1 Data Manager, 1 Team Leader BI, 1 Senior BI Analyst, 1 Data Engineer Leader, 2 Data Engineer Senior, and 4 Data Engineer Junior.
Tasks performed:
• Design & Compliant Architectural proposal for Big Data Implementation
• Management Data Team
Tools: Microsoft Azure, Data Factory, Databricks, Hadoop, Hive, Pig, Spark, Spark Streaming, Spark MLLIB, Spark GraphX, SQL Server, Synapse. Apache Hadoop, Apache Spark, Askaban, Talend, Tableau, GitHub, Jira.

CANTV
Project Leader
April 1999 - July 2014 (15 years 4 months)
Caracas, Venezuela

Project: Incident Management, Problem Management, Change Management, Inventory Management
Team size: 1 Manager, 2 Senior Engineer, 10 Junior Engineer
Tasks performed:
• Design and development of workflow systems
• Architectural proposal, integration proposal
• Project Management
Tools: Remedy, Oracle Process Manager, IBM Modeler, Bonita Soft. Java.

Education

Universidad Central de Venezuela
Doctor in Science of Computer, Science Computer, Software Engenieer · (2004 - 2009)

Universidad Simon Bolivar
Computer Engenieer, Science Computer, Software Engenieer · (1991 - 1998)

Universidad Simon Bolivar
Master's Degree in Software Engineering, Analysis and Design Software, General System Theory, · (2000 - 2003)

Universidad Catolica Andres Bello
Advanced Study of Theology, Theology · (2009 - 2014)

Universidad Yacambu

Master's Degree of Business Administration, Finance, Administration, Business · (2001 - 2004)