

Jose Andres Fernandez

Marmolejo

Data Architect

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Data Architect with more than 10 years of experience in the industry, combined with a passion for helping companies to maintain efficient data governance. I am committed to developing strategic plans based on data models, predictive findings, advanced analytics using Python and cloud services, and applying data visualization tools such as Power Bi and Tableau. I consider myself a person with high leadership and teamwork skills, focused on detail and information analysis, I have ease of communication to work in multicultural environments.

EXPERIENCE

BID SPD/SDV

SR. Data Engineer Consultant— *July, 2023 - December, 2023*

- We created a data architecture, applied data mining techniques, ETL, statistical analysis, data cleaning, feature scaling, which generated Geo spatial visualizations.
- Achieve better business project management and agile management by creating, organizing, and mentoring or mentoring a training plan and other experiences to foster team member learning, development, and job satisfaction.
- Worked with the company's different public cloud accounts to improve the performance of existing pipelines, resulting in connections with new tools to improve the performance of visualizations and their Big Data structure.
- **Technology stack:** Python, Athena, Pyathena, AWS, Power Bi, Jira, Gitbucket, DevOps, Jenkins, Scruban, MS Excel, Sql, NoSQL, Distributed Systems.

Morena Distribution LLC

Data Architect— *September, 2021 - March, 2023*

- Create data architecture, we applied data mining techniques, ETL, statistical analysis, data cleansing, feature scaling, which generated machine learning models and visualizations that drive performance and provide insights, built from prototype to production deployment.
- I worked creating deep convolution networks for image detection, with which we were able to reduce the industrial process in the silver improving the delivery time of products by 35%.
- I managed to channel the decision-making of data-oriented investors, implementing strategies such as MDM, creation of data standards and policies, we created Dashboards in Power Bi and Tableau for the general analysis of the company's situation, for decision-making and KPIs.
- Supported and led teams in all phases of change management and financial services, partnered with sales to support account renewals and expansions, performed root cause analysis on problem resolution to ensure optimal customer satisfaction and reduced cost costs, improving financial management.
- Achieve improved business project management and agile management by creating, organizing, and mentoring or coaching a training plan and other experiences to foster team member learning, development, and job satisfaction.
- Developed the company's general operating system (core), which automated and streamlined the daily process and gave staff more time to cover more new clients, increasing company sales by 70% and improving workloads.
- **Technology stack:** MDM, RPA, Power Bi, Tableau, Python, API, microservices, DevOps, Cloud, SSAS, SSIS, and SSRS, Scrum and Kanban, Jira, MS Excel, KPIs, Sql, NoSQL, Azure Databricks, Distributed Systems.

College of Professionals in Informatics and Computing (CPIC)

Big Data Commission Coordinator— *September, 2019 - July, 2022*

- I worked as coordinator of the commission specialized in Big Data issues for the College of Professionals in Informatics and Computing, we managed to implement and incorporate strict data management controls in accordance with the global data management policy in Finance and public government, creating and executing data projects, distributed systems, APIs, microservices, data processing, solution architectures in a cloud.
- Designed, analyzed and monitored data architecture with software products, Data Pipeline by integrating multiple packages and big data open-source frameworks in ecosystems such as Hadoop and Spark, python/scala, Airflow and Kafka flows.
- Design Data Pipeline using PaaS/SaaS, where you integrate different technologies and data sources, such as data.world

to later create reports in Power Bi. Work on identifying, analyzing, and interpreting trends or patterns in data streams and data sets, measure, track, and report key performance indicators and quality metrics from large data sets, automated processes, and data processing stages. Existing processes were developed and improved to ensure data ingestion through the ETL platform.

- Work with management, business users, and teammates to prioritize business and information needs, we can develop queries, portal views, or analytic models to provide leaders with the information and proactive analysis they need to make informed business decisions.
- We create talks and workshops on data insights and insights, work on managing communications with stakeholders and other teams, collaborating with technical and non-technical colleagues to complete data and analytics projects, as well as enabling all parties to use data and analytics to further improve the business.
- Monitor the operations of various Tableau and Power Bi environments. Measurement and monitoring of the performance and health of the service and support (SLA, KPI, etc.), for example the Covid-19 dashboard of the Costa Rican government, we were able to improve data cleaning to generate more accurate metrics for the ministries of health.
- **Technology stack:** data.world, SAP HANA Cloud, HDFS, Hive, SQL, Spark, Spark Streaming, Spark SQL, Kafka, Cloudera, Airflow/Python, Power Bi, Tableau, Python, microservices, DevOps, API, Cloud, Sql, NoSQL, BigQuery, Cloudera, MATLAB, AWS Glue ETL, Databricks, RedShift.

Instituto para universitario Jimenez

College Professor— *January, 2017 – July, 2022*

- I have developed a method to create dynamic classes, facilitate the use of technologies and logic, being a professor of Database courses, Programming in different languages such as C++, JAVA, C#, PHP, My students learn in an entertaining way, while at the same time increase academic performance. 97% of my students pass the course and 70% of them with an average of over 80 points.
- I have created workshops on different topics such as Big Data, Data Governance, Machine Learning, Blockchain, RPA, among others, which generated the opening of spaces to give workshops in public and private organizations, contributing knowledge to different sectors of the country.
- I have worked in planning and Research of new trends in Information Technology, which allowed me to help students navigate internships and job searches.
- I have been an Instructor of Microsoft Power Bi courses in companies and universities, encouraging student participation in productive discussions and scheduled projects.
- **Technology stack:** Sql Server, Oracle, Power Bi, RPA, Python, C#, C++, PHP, Java, Scrum and Kanban, Jira, MS Excel, Sql, NoSQL.

Bac Credomatic

Data Architect— *January, 2019 – August, 2021*

- I designed, analyzed and monitored all the projects in the region in software development and design of data processing models. We managed to establish a Data Governance executing and monitoring that quality standards are met, we established guidelines, methodologies, policies and procedures at the data level in the organization since we were in charge of all the data architecture and business data designs, of the financial group.
- I managed to improve the entire workflow of the architecture and technology area, reducing workloads, automating the process with tools such as RPA, ETL and Machine Learning, to generate dashboards in Power Bi for project monitoring, with information from multiple sources. data sources.
- Develop and implement Master Data Management (MDM) system strategy, bringing together distributed systems, APIs, microservices, databases (relational, NoSQL, or time series), streaming/messaging platforms to achieve improved compliance metrics, and decrease of financial and regulatory risks for the various lines of business of the bank.
- **Technology stack:** DB2, MDM, RPA, Power Bi, Tableau, Python, microservices, DevOps, API, Cloud, SSAS, SSIS, and SSRS, Scrum and Kanban, Jira, MS Excel, KPIs, Sql, NoSQL, Azure Databricks, Azure Data Factory, Azure SQL Data Warehouse/Synapse, Azure Data Lake.

European School

Development manager and DBA— *January, 2018 – October, 2018*

- Manage to reduce the waiting time in Database queries by up to 70% of its response speed, creating and improving its architecture in Sql Server, improving its performance.
- I established new policies and procedures, there was a strict follow-up and monitoring with which we were able to detect vulnerable areas and thus be able to correct them to improve the performance and size of the databases; active directory was managed.

- I was in charge of Systems Development, I developed the company's Assets system (developed in COLDFUSION, JAVASCRIPT, JQuery, HTML5 with SQL Server 2016) where we improved times and the way of doing things, by automating most of the tasks. chores. processes through the implementation of new technologies, for a better and more efficient way of working.
- **Technology stack:** Sql Server, Quickbooks, COLDFUSION, Bi, PHP, MS Excel, Sql, MongoDB, JQuery, HTML5, XML, API.

Plan Up Paris

Senior SQL Database Administrator— January, 2017 – January, 2018

- Manage to reduce the cost of the company's infrastructure by 70%, migrating to the cloud, create and manage infrastructure in the GCP cloud, where you create Databases, version control repositories, applications and containers for the company's Servers.
- Investigate and analyze data, to generate a proposal on the direction of the projects to be used by the company, which resulted in a complete modernization and migration of services to a new provider (all Cloud configuration or cloud services).
- I redesigned the structure of the Database, improving its normalization and performance in general, we managed to reduce the speed of our queries by more than 80%, thanks to the success I worked as its administrator and information technology project manager in the company.
- I established policies and procedures both in the Development area and in the Database area, which allowed us to develop a new and more efficient Web platform and Mobile app.
- **Technology stack:** Google Cloud, JavaScript, Ajax, json, PHP, HTML, CSS, LINUX, APACHE SERVER, MYSQL, Snowflake, Kubernetes, Big Query.

Info Medica

Director of IT— January, 2016 – January, 2017

- I managed to increase sales by 45%, with Research, analysis and implementation of new technologies for global marketing.
- Development of a Mobile Application and a Web platform, with which we achieve more reach in the products that are marketed.
- **Technology stack:** Aws, CentOS, Android Studio, Excel, SQL Lite, PHP, JQUERY, Oracle Html5, ccs.

Therapeutic Services TierrAzul

Director of IT— January, 2016 – August, 2017

- Manage to improve the workflow, automating the process with tools such as RPA, ETL and Machine Learning, to generate dashboards in Power Bi and Tableau for project monitoring and financial analysis, with information from multiple data sources.
- Improve the design and architecture of the Database, establishing policies and procedures related to the management, security, maintenance and use of the database management system.
- The response speed of the APIs was improved by 48%, working on DBA functions based on the company's core data.
- I was responsible for the Development of software systems in C#, .NET, SQL Server (for the management of appointments and medical information of patients, and financial management of the company) where we improved the times and the way of doing things, by automate most tasks. chores. processes through the implementation of new technologies, for a better and more efficient way of working.
- **Technology stack:** Google Cloud, Microsoft Visual Studio, JQuery, Active Directory, Excel, SQL Server, Power BI Web, SSIS, SSAS, SSRS, Snowflake, Kubernetes, Big Query.

Build Back Inc

General Manager— July, 2015 – December, 2015

- I was responsible for preparing metric analysis, reports for senior management and problem solving with local and global partners, for senior management decision making, which generated new customers and increased sales.
- Manage and administer the databases, create a data extraction solution (SSIS) from Excel to SQL, with which we generate dynamic reports for the partners of the company with (SSRS), with which proposals on the direction of the projects carried out by the company.
- I was in charge of several work teams with which we implemented a work plan for the reorganization of the company, we achieved greater and more orderly growth, sales increased by 50%, payroll increased only 2%.
- Developed and implemented software, with which we achieved exponential growth and business continuity, development in C# language, and SQL Server, with which we streamlined internal processes to improve the processing of documents used by company personnel.
- **Technology stack:** Microsoft Visual Studio, Active Directory, Excel, SQL Server, Power BI, SSIS, SSAS, SSRS.

Cr Views

DBA and Data base Programmer— *January, 2015 – July, 2015*

- Development of a Web page with PHP, JAVASCRIPT and HTML with a MYSQL database, with which we achieve more reach in the products that are marketed, improving the user experience.
- I created a service digitization project, where in collaboration with management we were able to improve our market penetration by 30%, improving decision-making based on data.
- I worked with the digital marketing area where we created advertising campaigns, which gave us results in a short time, increasing our client portfolio by 24%.
- **Technology stack:** Active Directory, Excel, Mysql, SIS, SSAS, SSRS, Visio, Microsoft Project, Sony Vegas, PS.

Home Desarrolladores

Manager of Informatics— *August, 2012 – December, 2014*

- I managed to work in advance and solve all problems that arose, giving support and maintenance to the company's computer equipment.
- Be able to manage time and prioritize work to solve in less time, working as a team and keeping knowledge of hardware and software up to date.
- Technology stack: Active Directory, Excel, Visio, Microsoft Project, Windows, Linux, MacOS, Office 365.

SKILLS

Programming languages: Advanced: Python, PHP, JavaScript; Intermediate: C#, C, R.

Database: Advanced: SQL Server, Oracle, MYSQL, DB2, MongoDB, PostgreSQL; Intermediate: Cassandra, Redis, SAP HANA.

Tools: Git, Jira, Confluence, Slack, AWS, Azure, Google Cloud.

Agile: DevOps, Scrum, Kanban.

Languages: Advanced: English; Native: Spanish.

EDUCATION

European Business School—*Madrid, Spain. Master's in business administration (MBA), in progress.*

Technological of Costa Rica —*Carthage, Costa Rica. Specialty in Data Science, Computer Engineering, April 2022.*

Costa Rican Technology University—*San Jose Costa Rica. Bachelor of Engineering in Computer Systems with an emphasis in Information Management, July 2019.*

Costa Rican Technology University—*San Jose Costa Rica. Bachelor of Computer Engineering, Computer Engineering, November 2016.*

CERTIFICATIONS

Professional Skills in Data Analysis—Microsoft. 2022.

Scrum Foundation Professional Certificate—CertiProf. 2020.

Big Data Analytics Certification—College of Professionals in Informatics and Computing (CPIC). 2020.

Advanced Scrum—LinkedIn. 2020.

Microsoft Solution Architect – Microsoft- InProgress