

# YADIR VEGA ESPINOZA

Data Engineer | Python Developer | AI & ML Specialist | Analytics

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📍 San José, Costa Rica

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in yadir-vega

🔗 vyadir

@ Portfolio



## WORK EXPERIENCE

Sr Data Analytics Executive | Remote

**LMT CONEXUS-GROUP**

📅 Jan 2020 – Oct 2022

📍 San José, Costa Rica

- Business Analyst & Data Visualization (Power BI & Tableau) and ETL Developer (R & Python) | Data segmentation.
- Prediction using machine learning techniques, forecasting, risk modeling, automation and optimization of reports (Scripting, Task scheduler, SMTP / POP server).
- Implementation and deployment of cloud data products.
- Manage and meet with external client portfolios about current and new projects.
- Business anomaly detection algorithms: Isolation Forest, local Outlier Factor (LOF), One-Class SVM.
- Dimensionality reduction algorithms: PCA, t-SNE, UMAP, ICA.
- Clustering algorithms: K-Means, C-Means, DBSCAN, Hierarchical clustering, Mean Shift.
- Fuzzy classification models that employ smoothing techniques with hyperbolic functions, optimized using genetic algorithms or gradient-based methods. Other techniques: linear regression, logistic regression, decision trees, random forest, support vector machines (SVM), k-nearest neighbors (KNN), artificial neural networks, gradient boosting machines (GBM), naive Bayes.

Sr DATA ENGINEER | Remote

**COOPELESCA R.L**

📅 Oct 2022 – Today

📍 San José, Costa Rica

- Azure/AWS cloud data engineering: Development and deployment of data products. Scrum & Dev Ops.
- CI/CD Pipelines, docker and kubernetes, shell and bash, ETL.
- Times series database (InfluxDB, TimescaleDB), SQL and NoSQL DB.
- Query and data management with Oracle SQL and Oracle PL-SQL.
- Deployment of software and data products in production environments using CI/CD.
- Data Analytics | Microsoft Fabric | .NET C# developer.
- Development and maintenance of Cloud Data Warehouse with Postgresql | Webservices (Soap and Rest) developer.
- Data lake (Amazon S3, ADLS Gen2).
- Loggin with azure, log management, Grafana. Data Governance (Knowledge in DAMA): Microsoft Purview.
- Strong programming skills and design patterns. Languages such as python, Java, C#, Javascript, R, Rust.
- Developer in data and software products across all stages of the machine learning and software product development lifecycle.
- Testing tools such as Postman/Insomnia, Selenium, SoapUI.
- Solutions based on data lake architectures such as traditional, lambda, Kappa and Lakehouse.
- Cloud Data Engineering (IaaS, PaaS, SaaS).
- Basic compliance to frameworks (GDPR, HIPAA, PCI, SOX).

## KEYWORDS

ETL CI/CD Azure AWS R  
C# Databricks ML GCP Kafka  
Hadoop Python Docker Linux  
Airflow Kubernetes Big Query  
Terraform Tensorflow MS Fabric

## EDUCATION

Bachelor - BEd, Mathematician

**Instituto Tecnológico de Costa Rica.**

📅 2019-2022

📍 Cartago, Costa Rica

Professional Certificate Business Analytics for Enterprise Decision-Making with Machine Learning

**CICR - Cámara de Industrias de Costa Rica**

📅 2024-2024

📍 San José, Costa Rica

Professional Certificate Machine Learning

**PROMiDAT**

📅 2024-2025

📍 San José, Costa Rica

Bachelor's Degree in Computer Engineering

**Instituto Tecnológico de Costa Rica.**

📅 2024-2029

📍 Cartago, Costa Rica

## E-LEARNING CERTIFIED

Data Lakehouse Databricks Certified

Scrum Fundamentals Certified 4th Edition

Azure Data Engineer Smart Data Certified

## REFERENCES

Luis Carlos Quesada Rodríguez. / Sr AI Consultant I at Hakkōda, an IBM Company  
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