

Jose Andres Picado Corrales

Data Engineer

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PROFESSIONAL SUMMARY

Data Engineer with 2+ years building production ETL pipelines and data systems. Proven track record optimizing large-scale data processing: reduced enterprise audit system from 6 hours to 45 minutes (92% improvement) processing 500K+ records. Specialized in Python, Apache Spark, data quality frameworks, and cloud architecture. Strong foundation in systems design and operational excellence.

TECHNICAL SKILLS

Languages: Python 3.8+ (Pandas, Polars, PyQt6), SQL, PL/SQL, Java

Data Engineering: ETL pipelines, Apache Spark, incremental loading, data quality validation

Architecture & Design: DDD patterns, system design, API integration, scalability optimization

APIs & Integration: RESTful APIs, SharePoint API (OAuth 2.0), third-party integrations

Cloud & DevOps: AWS (Lambda, Cognito), Git, structured logging, monitoring

Performance Optimization: Polars vs Pandas trade-offs, multi-core processing, memory profiling

Databases: Oracle EBS/Cloud, SAP EDI, MySQL, PostgreSQL

PROFESSIONAL EXPERIENCE

Product Data Analyst

July 2024 – Present

World Wide Technology Costa Rica

- Designed and built enterprise data pipeline (SharePoint → Python → Power BI) reducing processing time by 80%
- Developed production Python applications: audit system processing 500K+ records with 6h → 45min optimization (92% improvement)
- Implemented data quality framework with automated validation, reducing manual compliance review by 95%
- Built OAuth 2.0 API integrations handling 350+ concurrent customer data flows with zero authentication failures
- Selected Polars over Pandas for large-scale processing: achieved 5-10x speed improvement and 75% memory reduction
- Created PyQt6 desktop applications and fuzzy matching algorithms (85% accuracy) for enterprise data operations

EDI Analyst

July 2023 – July 2024

DXC Technology Remote

- Resolved complex SAP EDI data mapping issues at 95% resolution rate, supporting enterprise client integrations
- Monitored production data flows handling 200K+ daily transaction records with 99.8% uptime
- Collaborated with engineering teams on data transformation challenges across multiple client implementations

Inside Sales Engineer

August 2022 – July 2023

Emerson Escazu, Costa Rica

- Supported technical sales through systematic client engagement and technical solution validation
- Conducted technical reviews and system assessments for client deliverables

Content Test Specialist

November 2021 – July 2022

Amazon Heredia, Costa Rica

- Executed 500+ test cases for Alexa skills and product features at 98% accuracy rate
- Identified and documented edge cases improving product quality before public release

KEY PROJECTS

Enterprise Audit System (Production, 2024)

Automated compliance audit processing 500K+ records with 92% latency reduction (6 hours → 45 minutes). Built data quality validation framework with automated anomaly detection. Implemented using Python + Polars for production scalability.

SharePoint-to-Power BI ETL Pipeline (Production, 2024)

End-to-end incremental data pipeline with OAuth 2.0 authentication, achieving 80% processing time reduction. Designed for reliable daily scheduling and error recovery.

Intelligent Data Truncation Tool (Production, 2024)

PyQt6 desktop application with fuzzy matching algorithm (85% accuracy) for automated data normalization. Reduced manual data entry by 4 hours per week.

EDUCATION

Universidad Cenfotec

Bachelor's Degree in Software Development — 60% completed (on track for December 2025)

2021 – 2026

Growup Data Analytics

Data Analysis Fundamentals: SQL, Power BI, Excel

2020 – 2021

RELEVANT CERTIFICATIONS

Python para el Análisis de Datos	Oct 2024
Universidad Cenfotec	
Business Analytics 1	Aug 2024
Universidad Cenfotec — Skills: SQL, Data Visualization	
Técnico Superior en Desarrollo de Software	Apr 2024
Universidad Cenfotec	