

Juan Diego Arce Castro

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🌍 Costa Rica — Remote friendly

Data / SQL & BI Engineer | SQL Server | ETL | Reporting | Azure

Professional Summary

Data & Systems Engineer specialized in SQL Server, business intelligence, and enterprise data platforms within government and regulated environments. Proven experience maintaining and optimizing mission-critical systems, financial reporting pipelines, and data integration platforms. Strong background in automation, data quality, performance tuning, and cloud-based analytics using Microsoft technologies.

Technical Stack

Data & BI

- SQL Server (2008–2019), T-SQL, Stored Procedures, Triggers
 - Query Optimization & Performance Tuning
 - ETL Pipelines & Data Warehousing
 - Power BI, DAX, Reporting & KPIs
 - Azure VMs, Databases
 - Azure DevOps, GitHub
 - C#, .NET Core, REST APIs
 - Data Governance, Audit & Compliance Reporting
 - Legacy System Modernization
 - System Integration & Security
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Professional Experience

INAMU – Instituto Nacional de las Mujeres (Government of Costa Rica)

Senior Data & Systems Engineer | 2023 – Present

- Led data engineering and SQL optimization across multiple mission-critical systems (**SARI, SisRUAP, FOMUJERES, SIPGAF**).
- Maintained and debugged complex payroll and HR calculation engines (600+ stored procedures, 140+ tables).
- Analyzed and corrected financial, payroll, and personnel workflows affecting 1,200+ users.
- Designed and maintained secure role-based access systems integrated with **Active Directory**.
- Developed automated ETL and reporting pipelines for executive and regulatory entities (including **SINIRUBE**).
- Created custom SQL extraction tools for official government reporting and audits.
- Managed **SQL Server** environments (2008–2017) **on-premise** and on **Azure virtual machines (Cloud)**.
- Administered **Azure DevOps** pipelines and repositories for SisRUAP public-facing platform.
- Provided advanced troubleshooting for production incidents and data integrity issues.
- Supported and supervised external vendors and AI initiatives (**Azure AI, RAG, vector databases**).
- Participated in technical evaluations, system design, and drafting of **TDRs** for new institutional platforms.
- Leading migration of legacy **SARI** platform to SQL Server 2017 and development of **BI reporting** environment.

(Participated in .NET development when required.)

Amazon Costa Rica – Global Services (Risk Mining Operations)

Fraud Risk Specialist | Sep 2019 – May 2023

- Data analysis to detect anomalies and fraud patterns across global platforms.
 - SQL and advanced Excel reporting to support operational monitoring and investigations.
 - Collaboration with Analytics/Product teams to improve internal risk controls based on data.
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Education

Bachelor's — Systems Engineering (2021)

Universidad Americana

Licenciatura — Systems Engineering (In progress, expected 2026)
Universidad Central

Languages

- Spanish — Native
 - English — Advanced (C1)
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Additional Information

- Driver's licenses: B1 / A3
- Member — Costa Rican College of IT Professionals (CPIC) | [ID 11343](#)