



SENIOR DATA ENGINEER · DATA PLATFORMS

# Vitor Bordini Garbim

19+ years architecting scalable, petabyte-scale data platforms across insurance, finance, and tech — on AWS.

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## PROFESSIONAL SUMMARY

**Multilingual** (English, Spanish, Portuguese) Senior Data Engineer with **19+ years** designing scalable, high-impact data platforms across the insurance, financial, and technology sectors. Proven ability to lead end-to-end architecture of data lakes, real-time and batch pipelines, and governance frameworks on the AWS ecosystem.

At Amazon, led large-scale initiatives across HR, Risk (P&C insurance), and central Operations — including the design of **Veritas**, a claims and actuarial data lake supporting reserve modeling and ingestion from third-party providers such as Sedgwick. Contributed to the open-source AWS Insurance Lake project, shaping cross-platform standards for insurance data.

Built a **70+ PB** centralized enterprise data lake certified for Red Security, enabling governed analytics for **6,000+ users**. Delivered real-time and batch ingestion using AWS Glue, Redshift, Kinesis, Airflow, and Lake Formation, and defined self-service governance with DataZone across hundreds of domains.

Known for mentoring senior engineers and cross-disciplinary peers — data engineers, BIEs, and data scientists — while driving secure, cost-efficient data architecture through modern design patterns and operational best practices.

## PROFESSIONAL EXPERIENCE

### Senior Data Engineer

Amazon — OTS DataTech

May 2019 – Present

Austin, TX / Miami, FL

- Led the architecture and delivery of a **70+ PB centralized data lake** for Amazon Operations using AWS Glue, Redshift, Lake Formation, and Athena (Presto). Replaced a legacy ETL model, achieved Red Security certification, and **cut storage and compute costs by 40%**.
- Built **Veritas**, a Property & Casualty insurance data lake managing third-party claims ingestion (e.g. Sedgwick) and reserve modeling for Global Risk Management. Joined an open-source away team with AWS to help define **Insurance Lake**, standardizing cross-platform P&C data models.
- Defined source-of-truth governance for business-critical datasets, metrics, and dashboards across hundreds of teams, using AWS DataZone and SageMaker Studio to deliver a federated catalog for self-service analytics at scale.
- Built and maintained real-time and batch ETL pipelines with Airflow, Glue Streaming, Lambda, and Kinesis, integrating data from RDS, DynamoDB, OpenSearch, and other upstream systems.

- Drove data-product operations — defining contracts, aligning roadmaps, and tracking KPIs with product managers and domain leads in Operations and Risk.
- Mentored senior engineers and cross-functional peers (data engineers, BIEs, data scientists), elevating technical standards and operational best practices across Amazon's data community.

#### BUSINESS DOMAINS

**Career Choice (HR)** — data infrastructure for a company-wide upskilling initiative for warehouse employees.

**GRMC (Insurance & Risk)** — domain-specific P&C pipelines and actuarial support.

**OTS DataTech (Central Operations)** — reusable, governed infrastructure for analytics at enterprise scale.

## Senior Project Manager & Data Strategy

Jul 2012 – May 2019

AIG

Miami / Ft. Lauderdale & São Paulo — LATAM, Europe, US

- Led enterprise-wide P&C insurance transformation across **7+ countries** in Latin America, Europe, and the U.S., focused on risk, claims, and underwriting operations.
- Designed and implemented a future-state data warehouse for the AIG Shared Services Center, unifying system interfaces and manual inputs to improve data quality, traceability, and automated reporting across **1,400+ reports**.
- Developed insurance analytics and KPI dashboards for HR, Finance, Operations, and Claims using Tableau, QlikView, SQL, Excel, and MS Access, enabling leadership to track performance and claims cycle times.
- Streamlined underwriting and claims workflows across Europe with productivity tools and automation, significantly reducing policy-issuance cycle times and manual workload during peak demand.
- As Strategic Planning Coordinator, built global dashboards for LAC and U.S. regions, delivering unified HR, Operations, Customer, and Claims KPIs for executive decision-making. As System Architect, integrated multiple insurance systems and built ETL/ODS processes using SAS, Oracle, and Microsoft tools.
- Implemented Lean Six Sigma methods and trained regional executives and managers on structured problem-solving, SOPs, and continuous improvement.

## EDUCATION

### B.S. in Computer Information Systems, Minor in Business

Jan 2008 – Dec 2012

Universidade Presbiteriana Mackenzie — São Paulo, Brazil

## TECHNICAL SKILLS

### AWS

Glue (Spark)

Redshift

Lake Formation

Athena (Presto)

EMR (Hadoop)

SageMaker

Bedrock

Kendra

Lambda

CDK

ECS Fargate

S3

DataZone

### REAL-TIME & BATCH

Kinesis

Glue Streaming

Airflow

DynamoDB Streams

**PROGRAMMING**

- Python
- TypeScript
- JavaScript
- SQL

**WEB & BACKEND**

- Flask
- FastAPI
- Node.js
- ReactJS
- HTML
- CSS

**CI/CD**

- CodePipeline
- CodeCommit
- GitLab

**ARCHITECTURE**

- Data Lake
- Data Mesh
- Serverless
- Scalable System Design
- MLOps Infrastructure

**SECURITY**

- IAM
- Data Encryption
- Governance
- Red Security

**■ CORE STRENGTHS**

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- Mentorship & Coaching
- System Design Thinking
- Interviewing & Talent Development
- Cross-Functional Collaboration
- Agile Methodologies
- Leadership in Technical Strategy
- Communication & Stakeholder Alignment