

# Germán Neironi

Cloud Data Engineer | AWS Specialist | AI/ML Integration

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## Professional Summary

Cloud Data Engineer with **15+ years** of experience across healthcare informatics, business intelligence, and enterprise data systems. Expert in building AWS data infrastructures, implementing ETL/ELT processes, and creating impactful analytical solutions.

Specialized in **full-stack cloud development** with AWS (CDK, Lambda, ECS Fargate, RDS, S3, Glue, Athena), FastAPI, Next.js, PostgreSQL, and **AI integration**. Skilled in Python, TypeScript, Docker, and designing **hybrid serverless architectures** for production SaaS platforms.

Currently leading cloud data projects at **Argeniss Software**. Founded **CloudPrune AI**, a production FinOps SaaS platform that automates AWS cost optimization through AI-powered infrastructure-as-code generation.

## Education

### Bachelor's Degree in Business Management

Universidad Autónoma de Entre Ríos (UADER), Paraná, Argentina

### Certifications & Training:

- AWS Cloud Services (Kinesis, EMR, Glue, Athena, QuickSight, Redshift, IoT Analytics)
- Azure Fundamentals & Data Engineering
- C1 English Language (EFSET)
- Machine Learning Engineer (Anyone AI)

- Scrum Foundation Professional & PMO
- ITIL® Foundation Certificate

## Core Technical Skills

### Cloud & Infrastructure:

AWS (CDK, Lambda, Step Functions, ECS Fargate, DMS, Bedrock, S3, Glue, Athena, Redshift, DynamoDB, SQS, KMS, EventBridge, Secrets Manager, CloudFront), Terraform, Azure

### Programming & Frameworks:

Python, TypeScript, SQL (T-SQL, PL/SQL), JavaScript, FastAPI, Next.js 14, Vue.js, R

### Data Engineering:

ETL/ELT, Parquet, JSON, Pandas, PySpark, Apache Spark, Data Pipeline Design

### Databases:

PostgreSQL, MySQL, SQL Server, MongoDB, Oracle, Amazon RDS, Amazon Redshift

### AI/ML:

AWS Bedrock (Claude 3.5 Sonnet), Scikit-learn, PyTorch, Keras, SageMaker Canvas

### DevOps & Tools:

Docker, Git, GitHub Actions, CI/CD, IaC (CDK, Terraform), Jira, Figma

### Business Intelligence:

Power BI, Tableau, Pentaho, QuickSight, SSRS

## Professional Experience

### CloudPrune AI | *Founder & Technical Lead*

July 2024 - Present | SaaS Startup (Side Project)

- Founded production **FinOps SaaS platform** analyzing AWS accounts and auto-generating infrastructure-as-code for cost optimization
- Implemented **8 resource analyzers** (EC2, EBS, S3, RDS, Zombie Services) detecting **20-40% average savings**

- Built **hybrid serverless architecture**: Lambda for API (FastAPI), ECS Fargate for scan workers, RDS PostgreSQL
- Developed **AI-powered CDK code generation** using Claude API (Anthropic) for automated optimization
- Designed **gainshare pricing model** with Stripe integration
- **Validated**: Detected **\$256K/year savings** in real fintech scenario (249 instances, 3 AWS accounts)
- Deployed production MVP in 4 months with full CI/CD pipeline

**Tech Stack**: AWS CDK, Lambda, ECS Fargate, RDS, S3, SQS, Cost Explorer, FastAPI, Next.js 14, PostgreSQL, Stripe, Auth0, Python, TypeScript, Docker

## Argeniss Software | *AWS Data Integration Engineer*

**October 2025 - Present** | Fintech Company

- Architected **automated DMS system** replicating **10-30 SQL Server databases** to Redshift with CDC (30-120 sec latency)
- Built **reusable Terraform modules** (DMS instance, endpoints, KMS) following IaC best practices
- Designed **multi-source architecture** supporting SQL Server (DMS), MongoDB (Change Streams), REST APIs (Salesforce, NetSuite)
- Developed **orchestration system** with Step Functions and Lambda for **zero-touch database onboarding** (3 commands)
- Implemented **DynamoDB-driven configuration catalog** and **S3 data lake** for semi-structured data
- Deployed **multi-AZ, Security Hub compliant** infrastructure with automated KMS rotation
- Created **Redshift Spectrum integration** for querying S3 data alongside relational tables
- Delivered **60-70% infrastructure reusability**, reducing onboarding time from weeks to days

**Tech Stack**: AWS DMS, Lambda, Step Functions, DynamoDB, S3, Redshift, KMS, Terraform, Python, SQL Server, MongoDB, REST APIs

## Argeniss Software | *AWS Data Engineer*

**March 2025 - October 2025** | E-learning & Healthcare Company

- Architected **complete ETL system** extracting student performance data from MySQL to S3 Data Lake with Parquet optimization
- Built **dynamic REST API** with API Gateway + Lambda + Athena for configurable analytics endpoints (no-code via DynamoDB)
- Developed **LLM-powered analysis system** using AWS Bedrock (Claude 3.5 Sonnet) for personalized educational recommendations
- Implemented **6 production Lambda functions** (containerized) handling ETL, API queries, LLM analysis, NCLEX generation
- Created **real-time update pipeline** with SQS for user-specific data refreshes
- Designed **Vue.js frontend** with CloudFront for NCLEX question generator with iterative AI feedback
- Deployed **multi-stack CDK infrastructure** with automated Glue Crawlers and EventBridge schedulers
- Optimized query costs with Athena partitioning strategy, achieving **sub-second API response times**

**Tech Stack:** AWS CDK, Lambda, API Gateway, Bedrock Claude, Athena, Glue, S3, DynamoDB, SQS, CloudFront, EventBridge, Secrets Manager, Python, MySQL, Parquet, Vue.js, Docker

## Argeniss Software | *Additional Projects*

**February 2025 - Present** | Multiple Clients

### **AWS Data Warehouse Engineer:**

- Built API data extraction and transformation pipelines using AWS CDK
- Developed automated JSON-to-Parquet conversion with partitioned storage
- Configured Glue Crawlers for automated schema cataloging and Athena optimization
- Implemented secure credential management with Parameter Store and S3 encryption

### **AWS SageMaker Forecast Engineer:**

- Implemented forecast infrastructure using SageMaker Canvas models
- Created dual system for short/long-term predictions
- Set up GitHub Actions CI/CD pipeline with multi-environment deployment

### **Bedrock AI Analysis Engineer:**

- Designed **multi-model AI pipeline** using AWS Bedrock with **4 concurrent models** (Claude Sonnet, Haiku, Nova Lite, Nova Pro)
- Built serverless architecture with **Step Functions** orchestrating 3-stage workflow
- Implemented automated CSV processing handling **300+ records** with EventBridge triggers
- Achieved **30-60 second processing time** per account with cross-model validation

## **Scale AI | AI Quality Assurance**

**August 2023 - September 2024**

- Helped train generative AI models by performing code review of model output
- Created code snippets with reasoning to improve AI model responses
- Identified and fixed bugs to enhance model performance
- Supported prompt engineering and quality standards

**Tech Stack:** Python, NumPy, Pandas, Scikit-learn, Keras, PyTorch, Docker, AWS

## **NTB Solutions | Sr Data Analyst**

**August 2018 - February 2024**

- Worked on data analysis and integration projects for healthcare clients across multiple countries
- Built ETL processes using Azure DataFactory, Notebooks, Scala, and Python
- Created BI dashboards using Power BI, Pentaho, and Tableau
- Designed and implemented health information systems (HIS, LIS, RIS)
- Set up HL7-FHIR health interoperability processes
- **Achievement:** Built custom report recovering **billions of pesos annually** in previously uncontrolled funds

**Tech Stack:** Azure DataFactory, Python, Spark, PySpark, SQL, Pentaho, Power BI, MIRTH Connect, MySQL, Oracle, PostgreSQL, MongoDB

## **Anyone AI | Machine Learning Engineer (Part Time)**

**July 2022 - December 2022**

- Developed sentiment analysis, image classification, credit risk analysis, and salary prediction models
- Built and trained ML models using Python and various libraries
- Integrated models into API-based web services with Docker deployment

**Tech Stack:** Python, Scikit-learn, Keras, PyTorch, TensorFlow, Docker

## **Sanatorio la Entrerriana | *Data Analyst & IT Manager***

**July 2008 - August 2018**

- Led implementation of health information system for large healthcare institution
- Created dashboards and reports using Power BI and Google Data Studio
- Managed Oracle databases and data-driven decision-making processes
- **Achievement:** Successfully led declining implementation project involving **100% organizational cultural change**

**Tech Stack:** Oracle, SQL, Power BI, Google Data Studio, ETL processes

## **Key Projects & Achievements**

### **CloudPrune AI Platform**

Production-ready FinOps SaaS detecting \$256K/year savings in fintech validation scenario. Featured AI-powered CDK code generation and gainshare pricing model.

### **Multi-Source DMS Architecture**

Automated replication system supporting SQL Server, MongoDB, and REST APIs with 60-70% infrastructure reusability.

### **Educational Analytics Platform**

Complete ETL system with LLM analysis, dynamic REST API, and NCLEX question generator with Vue.js frontend.

# Healthcare Data Recovery

Custom reporting solution recovering billions of pesos annually in previously uncontrolled healthcare funds.

## Soft Skills

- Strategic Thinking & Problem Solving
- Team Leadership & Collaboration
- Continuous Learning & Growth Mindset
- Strong Written & Verbal Communication
- Detail-Oriented & Goal-Driven
- Remote Work Excellence (Slack, Discord, Teams, Jira)
- Cross-Functional Team Coordination
- Stakeholder Management