Reinaldo Del Dotore

Data Platform Engineer

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Data Platform Engineer operating a production analytics platform on Amazon EKS: Airflow, Spark on Kubernetes, Apache Iceberg, Hive Metastore, Dremio, NiFi, RisingWave and Amazon EMR. My work centers on incident triage, root-cause investigation and operational tooling. Before IT, I served 30 years as an officer in the São Paulo Military Police, in clinical and then administrative roles.

Experience

Data Platform Engineer, COCUS Portugal

March 2026 to present

Remote. Infrastructure team for a production analytics platform of a company in the energy sector.

- Daily health checks and incident triage across production and pre-production environments, separating platform faults from application faults before anything is changed. 24/7 on-call rotation since September 2026.
- Diagnosed severe slowdowns in an Iceberg ingestion pipeline: two years of commits without snapshot expiration had grown table metadata to more than 5,000 times the size of the data. Delivered an investigation report and remediation plan; a follow-up scan flagged dozens of tables with the same pattern.
- Traced Spark driver failures on newly scaled-up nodes to a 2 to 3.5 minute gap between node Ready and pod network convergence, using live measurements and EKS API server audit logs. Documented four mitigation options for the platform decision.
- Wrote a 21-check morning verification protocol and a dependency-free Python CLI (kubectl and AWS CLI) for multi-environment audits. Findings included idle EMR clusters with 18 instances and no auto-termination, and DAG runs stuck for almost a month.
- Traced recurring ingestion failures to orphaned Hive Metastore locks; cost review of EMR clusters running fully On-Demand, with Spot identified as a clear saving.
- Root-cause write-ups and runbooks for platform and application teams.

Career change into IT

after retiring in 2020

- Self-directed study, home labs and personal projects in Linux, AWS, Terraform, Docker and Apache Airflow.

Officer, São Paulo Military Police (PMESP), Brazil

1990 to 2020

Retired as a Major.

- Dental surgeon in the force's dental service, then administrative roles in legal advisory, intelligence, procurement and personnel.
- Coordinated multidisciplinary teams of more than 100 people.
- Management reports, performance indicators, audits and regulatory compliance.

Skills

In production	Kubernetes on Amazon EKS, Apache Airflow 2.8, Apache Spark on Kubernetes, Apache Iceberg, Hive Metastore, Dremio, NiFi, RisingWave, AWS (EMR, S3, IAM, CloudWatch Logs), Prometheus, Grafana
Programming	Python, Bash, SQL
Labs and projects	Terraform, GitHub Actions, GitLab CI, Docker Compose, AWS (S3, CloudFront), Linux
Learning	Preparing for the CKA exam; studying Apache Iceberg internals and dbt. Next: Spark performance tuning and AWS Certified Data Engineer – Associate.

Personal projects

Airflow monitoring stack. StatsD exporter, Prometheus and Grafana with Docker Compose. github.com/deldotore-r/airflow-monitoring-stack

Exchange-rate pipeline. Two decoupled Airflow DAGs and a Plotly report published by GitLab CI to GitLab Pages. gitlab.com/deldotore-r/airflow-cambio-pipeline

Education

Bachelor of Dental Surgery, University of São Paulo (USP)
Bachelor of Laws, UNIESP

Languages

Portuguese: native
English: reading B2, writing B1, speaking A2