

Adrian Villanueva Martinez

 [adrianvillanueva997](#) |  +34 638084303 |  adrian.villanueva.martinez@outlook.com |  [adrian-villanueva-martinez](#)




Senior Software Engineer with a successful track record in delivering high-quality solutions. Experienced leader skilled in driving projects from concept to completion. Passionate about optimizing processes through technology.

Skills

Nationality	Spain (EU)
Languages	English (business fluent), Spanish (native)
Coding	Python, Rust, Java, Go, TypeScript, C, JavaScript, HTML/CSS
Cloud & Infra	AWS (Redshift, S3, Glue, Lambda, SageMaker), Azure, GCP, Terraform, Docker, Kubernetes
Data Engineering	PySpark, Pandas, Databricks, Airflow, DBT, Kafka, MLflow, FastAPI
DevOps	CI/CD, GitHub Actions, ArgoCD, Terragrunt, Prometheus, Grafana
Databases	SQL Server, PostgreSQL, MySQL, MongoDB, Athena, Cassandra, Redis
Interests	Hiking, Reading, Photography, Cooking, Gaming, Music production, Cats


Education

 Universidad Europea de Madrid
BACHELOR'S DEGREE IN COMPUTER SCIENCE

Spain
2015 – 2022

- Thesis: Self-hosted AI-driven platform for security camera monitoring using edge computing

Professional Experience

 Woven by Toyota
DATA ENGINEER

Tokyo, Japan
2024 - Present

- Built a scalable, cloud-native data mesh platform on AWS and Databricks, adopted company-wide to enable governed, high-quality data sharing across domains
- Developed a multi-language Kafka ingestion SDK (Rust core with Python, Java, TypeScript, and Go bindings), deployed org-wide for real-time ingestion across heterogeneous systems
- Designed and implemented CI/CD pipelines for ML and data workflows in Databricks, integrating deployment and lifecycle tracking with MLflow
- Improved platform resilience through automated data reconciliation, OpenTelemetry instrumentation, and enforcement of data contracts
- Led development of self-service capabilities, including automated provisioning of Kafka topics, access control groups, and data product registration, reducing onboarding friction across the org
- Created platform documentation, naming conventions, and onboarding guides to support self-serve adoption by engineers, analysts, and ML practitioners

AWS Databricks Rust Python Java Go TypeScript Kafka Terraform MLflow CI/CD OpenTelemetry
Data Mesh Data Contracts Self-Service

 Albert Heijn
DATA ENGINEER

Amsterdam, Netherlands
2022 - 2024

- Managed a company-wide data platform built on Azure and Databricks, supporting large-scale batch and real-time pipelines
- Built reusable Terraform modules and automated infrastructure provisioning to reduce deployment time and enforce compliance
- Created observability tooling using Python and Kusto to ensure data quality and regulatory compliance across data products
- Implemented CI/CD with GitHub Actions and ArgoCD, automating deployment of services and pipelines to Kubernetes clusters
- Worked closely with analysts and data scientists to productionize ML pipelines and deploy feature engineering workflows

Azure Databricks Terraform CI/CD Python Kubernetes GitHub Actions Kusto

 Dashmote
DATA ENGINEER

Amsterdam, Netherlands
2021 - 2022

- Led AWS-based infrastructure migration using Terraform, reducing manual provisioning and enabling reproducible environments
- Migrated legacy Airflow pipelines to PySpark for scalable data processing and analytics workflows

- Optimized Docker builds and CI pipelines to cut build time and reduce cloud costs by applying multi-stage techniques
- Designed and deployed a governed data lake on S3 with robust schema management and access controls
- Collaborated with data scientists to automate training data pipelines and streamline model experimentation

AWS Terraform Python Apache Airflow PySpark Docker CI/CD

 Ernst & Young (EY)
SOFTWARE ENGINEER

Madrid, Spain
2019 - 2020

- Built ETL pipelines in Python, SQL, and Java to automate financial reporting workflows across global client accounts
- Trained and deployed ML models for forecasting and risk scoring in regulated environments
- Built and deployed full-stack data visualization tools on Linux for internal analytics teams
- Participated in project planning with clients, translating business goals into deliverable data products

Python SQL Java Talend Linux Machine Learning Full-stack