

# Adrian Villanueva Martinez

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

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.

## About me

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

## 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](#)

Ahold Delhaize

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](#) [Talent](#) [Linux](#) [Machine Learning](#) [Full-stack](#)

## Education

Universidad Europea de Madrid

BACHELOR'S DEGREE IN COMPUTER SCIENCE

Spain

2015 - 2022

- Graduated with GPA: 9.5/10
- Thesis: Self-hosted AI-driven platform for security camera monitoring using edge computing