## Adrian Villanueva Martinez





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## 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

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

## Professional Experience\_\_\_\_\_

Woven by Toyota

Tokyo, Japan

- · 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

Amsterdam, Netherlands

- · Managed a company-wide data platform built on Azure and Databricks, supporting large-scale batch and realtime 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

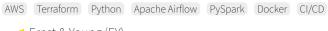
Azure Databricks Terraform CI/CD Python Kubernetes GitHub Actions Kusto



Amsterdam, Netherlands

- 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



*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

ADRIAN VILLANUEVA MARTINEZ

CURRICULUM VITAE