Adrian Villanueva Martinez

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 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 — *Spain*
BACHELOR'S DEGREE IN COMPUTER SCIENCE — *2015 – 2022*

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

Professional Experience

Woven by Toyota — *Tokyo, Japan*
DATA ENGINEER — *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 — *Amsterdam, Netherlands*
DATA ENGINEER — *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 — *Amsterdam, Netherlands*
DATA ENGINEER — *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) — *Madrid, Spain*
SOFTWARE ENGINEER — *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