

# Jazmín Alicia Basilio Velázquez

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*AWS Certified Solutions Architect – Professional, Data Architect, and AI/MLOps Engineer focused on cloud-native data platforms, automation, and machine learning systems.*

## Professional Summary

AWS Certified Solutions Architect – Professional and Data Architect with experience designing cloud-native data platforms, AI/ML pipelines, and DevOps automation on AWS. Skilled in AWS Glue, Redshift, Lambda, ECS, Kubernetes, Kafka, PySpark, Airflow, and full-stack development, with a strong academic background in mathematics and machine learning.

## Technical Skills

<b>AWS</b>	Glue, Lambda, ECS/Fargate, Redshift, S3, Step Functions, CodePipeline, CodeBuild, CodeCommit, CDK, CloudFormation, IAM
<b>Data Engineering</b>	PySpark, Apache Spark, Apache Airflow, Kafka, ETL, PostgreSQL, Oracle, Elasticsearch, MongoDB, MySQL
<b>AI &amp; MLOps</b>	PyTorch, TensorFlow, Scikit-learn, LLMs, LangChain, OpenAI API, MLflow, time series forecasting
<b>DevOps</b>	Docker, Kubernetes, Jenkins, Linux, Git, CI/CD, REST APIs
<b>Full-Stack</b>	Python, Node.js, React, Angular, TypeScript, HTML/CSS

## Certifications

- **AWS Certified Solutions Architect – Professional:** advanced design of complex, secure, resilient, and cost-optimized AWS architectures across organizations and workloads. Verify credential.
- **AWS Certified Solutions Architect – Associate:** designing resilient, secure, and cost-efficient architectures on AWS. Verify credential.
- **AWS Certified Developer – Associate:** building applications on AWS using CI/CD, containers, and managed services. Verify credential.
- **AWS Certified Data Engineer – Associate:** ingesting, transforming, and orchestrating data at scale in the AWS ecosystem. Verify credential.
- **AWS Certified SysOps Administrator – Associate:** operations, monitoring, automation, and reliability best practices on AWS. Verify credential.
- **AWS Certified Cloud Practitioner:** fundamentals of AWS services, cloud concepts, and best practices. Verify credential.

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## Experience

- Nov 2025 – Present **Data Architect (Full-time)**, *Grupo Salinas*, Mexico City
- Lead Data Architect for enterprise analytics and alerting platforms, owning the end-to-end AWS data architecture and delivery roadmap for data-driven business use cases.
  - Designed and coordinated AWS-based data pipelines using Glue, S3, Redshift, Lambda, Step Functions, and Kafka/MSK-oriented messaging patterns for transactional data ingestion and downstream analytics.
  - Led backend and data engineering workstreams, aligning architecture decisions, implementation plans, and delivery priorities across engineering teams and business stakeholders.
  - Established scalable ETL patterns focused on reliability, governance, traceability, and maintainability for risk-analysis and operational analytics workloads.
- Aug 2022 – Nov 2025 **AI Consultant (Full-time)**, *Grupo Salinas*, Mexico City
- Built ETL pipelines and anomaly-detection models using Elasticsearch, application logs, and infrastructure monitoring data for an enterprise AIOps initiative focused on detecting application and server malfunctions.
  - Developed secure operational analytics dashboards in Angular and implemented JWT-based authentication APIs for controlled access to internal tools.
  - Analyzed large-scale branch and ATM cash-movement datasets with PySpark to tune parameters for cash distribution optimization across branches.
  - Developed Oracle stored procedures to support migration of legacy SAS processes into an Oracle Data Warehouse for enterprise reporting workloads.
  - Developed AWS-based messaging and ETL components using Lambda, ECS, Kafka, and Redshift to ingest transactional data for internal analytics platforms.
  - Deployed and maintained a hybrid Kubernetes cluster (Windows/Linux) hosting 18 client-facing applications; later migrated workloads to AWS ECS and managed infrastructure as code with CloudFormation and AWS CDK.
  - Built CI/CD pipelines with CodePipeline, CodeBuild, CodeCommit, and CloudFormation/CDK to automate application delivery and infrastructure changes.
- Apr 2021 – Feb 2022 **Backend Developer**, *Fluid Tokens*, Remote, Full-time
- Designed and implemented RESTful APIs in Node.js with MongoDB.
  - Integrated DeFi services on blockchain.
  - Company website: [fluidtokens.com](https://fluidtokens.com).

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## Selected Projects

- Aug 2023 – Present **Gatsbyb — On-chain Analytics & ML Forecasting Platform (Personal Project)**, Mexico City / Remote
- Built CI/CD automation with Jenkins pipelines for reproducible builds, tests, and deployments across services.
  - Developed time-series forecasting models in PyTorch and automated training workflows; tracked experiments and model bundles with MLflow.
  - Designed orchestration using Apache Airflow to schedule and monitor ingestion, feature generation, training, and daily inference jobs.
  - Implemented on-chain analytics pipelines in Apache Spark, processing raw blockchain block data into daily aggregated metrics for downstream analysis.
  - Built a news ingestion pipeline that scrapes web sources and generates structured summaries using local LLaMA inference for sentiment and context features.
  - Orchestrated the platform at the infrastructure layer with Kubernetes, enabling scalable and repeatable batch jobs, services, and scheduled workloads.
  - Hosted the frontend and API on AWS, integrating the data and ML services into a production-style architecture.
  - Website: [gatsbyb.com](https://gatsbyb.com) — GitHub: [github.com/alice1989123](https://github.com/alice1989123)
  - Repositories: [gatsbyb](#), [crypto-strategies](#), [airflow\\_dags](#), [binance-etl](#), [crypto-news-summarizer](#), [bitcoin-etl](#)

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## Education

2020 **M.Sc. in Mathematics**, *UNAM*, Mexico City

2019–2024 **Ph.D. in Mathematics (dissertation in progress)**, *UNAM*, Mexico City

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## Digital Badges

