

Armani Villegas

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SUMMARY

Information systems and cloud architect with 10 years of progressive experience designing **AWS infrastructure**, integrating analytics platforms, and modernizing data environments across higher education and enterprise settings. Builds secure, resilient architectures spanning Amazon VPC, IAM, AWS Glue, Airflow, Step Functions, Lambda, **SageMaker Unified Studio**, Tableau Server, and relational data platforms. Leads architecture decisions from requirements discovery through road maps, deployment, usability testing, backup planning, and production support. Experienced migrating large **on premises relational databases** to AWS, connecting cloud data services with on premises visualization infrastructure, and advancing complex ETL and transformation programs with minimal supervision. Combines advanced SQL, data modeling, PeopleSoft data knowledge, Lucidchart documentation, and security focused design with practical troubleshooting and stakeholder communication. Holds a Master of Science in Management Information Systems and **AWS Certified Solutions Architect** Professional certification.

EXPERIENCE

Principal Cloud Architect

January 2024 - Present

Wasatch Peak Data Systems

Provo, UT

Owns AWS architecture for analytics and reporting platforms, guiding engineering delivery, security decisions, service integration, resilience planning, and production support.

- Defined AWS architecture for analytics platforms spanning VPC, IAM, data services, and application integrations.
- Designed IAM roles and policies with security partners, strengthening least privilege access for cloud workloads.
- Directed **AWS Glue**, Airflow, **Step Functions**, and Lambda deployment patterns across transformation workflows.
- Established **SageMaker Unified Studio** infrastructure with governed access and shared analytics data resources.
- Maintained Lucidchart **road maps** mapping dependencies across applications, networks, services, and data stores.
- Led resilience reviews validating backup, **redundancy**, scalability, **performance**, and security before production releases

Senior Information Systems Architect

July 2021 - December 2023

Mountain West University Systems Lab

Orem, UT

Architected institutional analytics systems across AWS and campus infrastructure, leading database migration, ETL design, reporting integration, and change assessment.

- Connected AWS data platforms with **Tableau Server** for institutional and executive reporting.
- Planned migration waves for large relational databases, sequencing validation, cutover, and recovery activities.
- Built ETL architecture with AWS Glue, orchestration services, **advanced SQL**, and **data modeling**.
- Integrated **PeopleSoft data** into analytics pipelines with traceable source to target documentation.
- Partnered with central IT on VPC connectivity, IAM controls, service configuration, and platform standards.
- Evaluated system changes through performance, **reliability**, scalability, security, and **usability testing**

Cloud Solutions Architect

March 2019 - June 2021

Canyon Bridge Technology

Salt Lake City, UT

Designed cloud solutions for data intensive applications, translating user requirements into secure AWS architectures, migration plans, integrations, and technical road maps.

- Designed AWS environments translating user requirements into network, compute, storage, and integration architectures.
- Created VPC configurations and IAM access models for development and production workloads.
- Modernized relational workloads with **AWS migration** approaches, reconciliation tests, and rollback plans.
- Developed **Lambda** and **Step Functions** patterns coordinating data movement and application events.
- Produced **Lucidchart** diagrams clarifying system interactions and future state sequencing for engineering teams.
- Diagnosed cross system performance issues by tracing application, network, and data dependencies

Systems Engineer

June 2016 - February 2019

Red Mesa Analytics

Murray, UT

Supported enterprise information systems and analytics infrastructure, developing foundational expertise in relational databases, ETL, Tableau Server, integrations, testing, and AWS operations.

- Supported **analytics** infrastructure spanning relational databases, SQL, application integrations, and server administration.
- Developed **ETL** jobs validating row counts, transformations, and exception records before scheduled releases.
- Administered **Tableau Server** components and data connections, resolving refresh and access issues.
- Documented application interfaces, database dependencies, and infrastructure components for change planning.
- Executed system and usability tests, recording defects and verifying fixes against reliability expectations.
- Built AWS development environments while learning VPC, IAM, **backup**, and **security** practices

PROJECTS

Institutional Analytics Cloud Migration 📅 2023

Migrated relational analytics workloads from campus infrastructure toward AWS, connecting governed data services with Tableau reporting and recovery planning.

Unified Analytics Workspace 📅 2024

Established a governed SageMaker Unified Studio environment with IAM controls, shared data resources, backup planning, and service integration.

LEADERSHIP & AWARDS

- AWS architecture leadership recognition for delivering secure analytics platforms and dependable production services.
- Higher education systems innovation recognition for advancing institutional data integration and reporting reliability.
- Technical mentorship recognition for guiding engineers through cloud architecture decisions and platform delivery.

EDUCATION

Master of Science in Management Information Systems

2020

Utah State University GPA: 4.0

Logan, UT

Coursework: Systems architecture, data modeling, database management, enterprise analytics

Bachelor of Science in Information Systems

2016

Weber State University GPA: 4.0

Ogden, UT

Coursework: Advanced SQL, systems analysis, networking, information security

CERTIFICATIONS

- AWS Certified Solutions Architect, Professional 📅 2025
- AWS Certified Solutions Architect, Associate 📅 2024

TECHNICAL SKILLS

- **AWS Cloud Services:** Amazon VPC, AWS IAM, AWS Glue, AWS Lambda
- **Workflow Orchestration:** Apache Airflow, AWS Step Functions, ETL, data transformation
- **Analytics Platforms:** SageMaker Unified Studio, Tableau Server, institutional reporting
- **Database Systems:** Relational databases, PeopleSoft data, advanced SQL
- **Data Architecture:** Data modeling, source to target mapping, schema assessment
- **Cloud Migration:** Database migration, cutover planning, reconciliation testing
- **Security Controls:** IAM roles, IAM policies, least privilege access
- **Infrastructure Design:** AWS architecture, network architecture, infrastructure road maps
- **Testing Practices:** Usability testing, performance testing, reliability testing
- **Documentation Tools:** Lucidchart, architecture diagrams, dependency mapping
- **Resilience Planning:** Backup planning, redundancy, recovery planning
- **Reporting Integration:** Tableau connectivity, cloud integration, on premises systems

SKILLS

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|--------------------|----------------------|------------------|-----------------------|
| • AWS Architecture | • Apache Airflow | • Tableau Server | • Data Modeling |
| • Amazon VPC | • AWS Step Functions | • Advanced SQL | • Cloud Migration |
| • AWS IAM | • AWS Lambda | • ETL | • Systems Integration |
| • AWS Glue | • SageMaker Studio | • Data Analysis | |

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery member, focused on systems architecture and cloud engineering.
- Cloud Native Computing Foundation participant, following practical standards for reliable platform delivery.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST