

JOSHVA SILVASSTAR

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Professional Summary

Dynamic Senior IT Leader with over a decade of experience with expertise in cloud adoption and cost optimization, achieving HIPAA/FedRAMP compliance. Developed platform from inception to 5x year-over-year revenue growth through Infrastructure as Code and secure data solutions. Demonstrates ability to align executive strategy with practical execution in software development, data engineering, and AI.

Technical Skills

- Cloud architecture
- AI and machine learning
- Software development
- Data warehousing and ETL processes
- Training and development
- Stakeholder management
- Process improvement
- Infrastructure & Configuration Management
- CI/CD practices
- Version control systems
- Project management tools
- Security compliance
- Agile methodologies
- Team leadership

Professional Experience

Information Technology Program Director | University of Colorado - Denver, CO | 05/2024 - Current

- Directed patient enrollment and allergy management platform (AWS + Terraform) reducing manual cycle time 70% and achieving 99.9% availability.
- Delivered offline-first mobile app on GCP with sub-10 sec resync and zero data loss incidents.
- Architected and led a GCP-based ETL pipeline to move flat file data into a BigQuery data warehouse for an e-consults organization.
- Implemented role-based access for Tableau Server dashboards (performance and operations), adhering to the principle of least privilege for metrics monitoring.

Co-Founder & Chief Technology Officer (CTO) | Clinic Chat - Denver, CO | 05/2022 - Current

- Delivered HIPAA-compliant multi-tenant SaaS (isolated VPC per tenant) with zero critical audit findings.
- Launched Bedrock-powered SMS chatbot raising patient engagement response rate 8%→15%.
- Built Aurora PostgreSQL data layer, ECS fargate processing layer with Terraform blue/green deployments.
- Implemented serverless ETL (Step Functions/Lambda) cutting data processing SLAs 25% and cost by 40%.
- Operationalized analytics stack enabling 200% revenue lift year one and 500% year two.
- Deployed AWS Landing Zone Accelerator meeting HIPAA/FedRAMP/TexRAMP compliance standards.
- Process improvement to reduce tenant onboarding time from 7 days to 8 hours.
- Steered project planning and requirements gathering for data integration and visualization initiatives, leading system design and implementation.

Information Technology Program Manager | University of Colorado - Denver, CO | 12/2021 - 05/2024

- Led engineering team of 4 developers delivering roadmap milestones ±5% schedule variance.
- Designed SMART on FHIR backend (Django REST, GCP) improving p95 latency 400ms→80ms.
- Instituted JWT-based access model eliminating prior high-risk auth gaps; 0 high findings in pen test.
- Led the development of a sharable FHIR to OMOP linkage pipeline on GCP (Python, BigQuery), raising match precision from 10% to 30% using NLP techniques.

Education

University of Colorado Denver

Master of Science (MS): Information Systems & Business Analytics