

Simon Vega

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SUMMARY

Cloud Engineer with six years of **professional IT experience** supporting federal agency environments and production systems. Builds AWS architectures for **highly distributed applications**, balancing availability, reliability, scalability, security controls, and operational boundaries. Brings hands-on experience across SaaS, PaaS, and IaaS solution design, networking, storage, identity management, implementation planning, and lift-and-shift migration methods. Translates customer needs into practical alternatives, production-ready designs, and clear engineering, security, and operational documentation. AWS Certified Solutions Architect–Associate with a Bachelor of Science in **Computer Science**. Ready to bring disciplined cloud delivery, thoughtful customer partnership, and steady operational leadership to **Northstar Civic Systems** while helping federal programs move from design through dependable production service.

EXPERIENCE

Cloud Engineer

August 2023 - Present

CivicBridge Technology Partners

Arlington, VA

Owns AWS architecture and delivery for distributed federal case-management services across multi-account environments. Leads solution design, infrastructure automation, **security documentation**, customer decision support, and transition into operations. Work connects engineering quality with dependable service for agency users.

- Led **AWS** architecture for case-management services across multiple accounts, **Availability** Zones, VPCs, and production support boundaries, protecting service continuity.
- Translated agency objectives into EC2, ECS, S3, RDS, **Route 53**, IAM, and CloudWatch designs, giving customers practical **implementation plans**.
- Built reusable Terraform modules and deployment runbooks, creating repeatable infrastructure builds and clearer operational handoffs for **engineering** teams.
- Compared lift-and-shift, replatforming, and managed-service options, documenting cost, risk, availability, and schedule tradeoffs for customer decisions.
- Coordinated security-control evidence, architecture diagrams, data-flow records, and operating procedures through reviews with security and operations partners.
- Guided production transitions with rollback criteria, monitoring thresholds, and incident playbooks, keeping services within approved performance and security boundaries.

Cloud Solutions Engineer

July 2021 - July 2023

BlueHarbor Federal Solutions

Bethesda, MD

Designed AWS foundation patterns and migration plans for a federal analytics platform supporting distributed workloads. Combined architecture, delivery controls, documentation, and stakeholder analysis so solutions could progress from discovery through production readiness and operations.

- Designed AWS landing-zone patterns with segmented **networking**, centralized logging, encrypted storage, and role-based **identity management** for a federal analytics platform.
- Converted application dependency inventories into phased migration plans for 30+ services, separating low-risk lift-and-shift workloads from systems needing redesign.
- Improved **reliability** planning through multi-AZ deployment models, backup validation, health checks, and recovery procedures that clarified service expectations.
- Produced business and technical alternative analyses that helped stakeholders select ECS, RDS, and S3 configurations suited to workload sensitivity and operating cost.
- Built CI/CD workflows with **CodePipeline**, CodeBuild, and **Terraform**, adding approval gates and environment-specific configuration for controlled federal releases.
- Prepared engineering, security, and **operational documentation** used during production readiness reviews and transition-to-operations activities.

Systems Engineer

July 2020 - June 2021

Meridian Public Sector Technology

Baltimore, MD

Supported AWS-hosted applications for federal program teams across development and production environments. Strengthened troubleshooting, automation, migration preparation, monitoring, and review materials while building a foundation for broader cloud architecture ownership.

- Resolved **EC2**, IAM, VPC, load-balancing, and **storage** issues across development and production environments, reducing service disruption for federal program teams.
- Automated repeatable server and configuration tasks with **Python**, Bash, and **CloudFormation**, shortening manual deployment work for a small systems engineering group.

- Maintained network diagrams, asset inventories, access matrices, and operating procedures, improving traceability during security and infrastructure reviews.
- Supported on-premises migration planning by documenting dependencies, validating target subnets, and testing data-transfer and rollback procedures.
- Created **CloudWatch** dashboards and alarms for application health, then escalated capacity and availability risks with evidence from logs and service metrics.
- Participated in architecture and change-control reviews, turning implementation findings into actionable updates for **engineering**, security, and customer teams.

PROJECTS

Federal Analytics Cloud Migration 📅 2023

Mapped dependencies across 30+ services and shaped phased AWS migration paths. Customer workshops connected lift-and-shift candidates with security, cost, recovery, and operating needs, giving program leaders a clearer route into production.

Multi-Account AWS Service Foundation 📅 2024

Created a reusable AWS foundation spanning VPCs, IAM, CloudWatch, S3, and RDS. Architecture decisions supported flexible scaling, security controls, audit evidence, and smoother transition from engineering into operations.

LEADERSHIP & AWARDS

- Received a 2024 Engineering Impact Award for improving AWS delivery consistency across federal production services.
- Recognized by program leadership in 2023 for clear migration analysis and customer-focused architecture decisions.
- Led peer learning sessions on Terraform modules, AWS identity management, and production readiness documentation.

EDUCATION

Bachelor of Science in Computer Science

2020

George Mason University GPA: 3.7

Fairfax, VA

Coursework: Cloud computing, computer networking, database systems, operating systems, software engineering

CERTIFICATIONS

- AWS Certified Solutions Architect–Associate 📅 2022
- AWS Certified Cloud Practitioner 📅 2021

TECHNICAL SKILLS

- **AWS Compute:** EC2, ECS, Lambda
- **AWS Storage:** S3, EBS, Backup
- **AWS Databases:** RDS, Aurora, DynamoDB
- **AWS Networking:** VPC, Route 53, Elastic Load Balancing
- **AWS Identity:** IAM, KMS, AWS Organizations
- **AWS Monitoring:** CloudWatch, CloudTrail, AWS Config
- **Infrastructure as Code:** Terraform, CloudFormation, HCL
- **CI/CD Platforms:** CodePipeline, CodeBuild, Git
- **Programming and Scripting:** Python, Bash, YAML
- **Cloud Service Models:** SaaS, PaaS, IaaS
- **Migration Methods:** Lift-and-shift, Replatforming, Dependency mapping
- **Documentation Systems:** Architecture diagrams, Data-flow records, Operating procedures

SKILLS

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|-----------------------|----------------------------|-----------------------|--------------------------|
| • AWS | • Implementation plans | • Identity management | • Technical analysis |
| • Cloud architecture | • Lift-and-shift migration | • SaaS | • Production readiness |
| • Distributed systems | • Networking | • PaaS | • Security documentation |
| • Solution design | • Storage | • IaaS | |

PROFESSIONAL AFFILIATIONS

- Member, Amazon Web Services User Group, Washington, DC, sharing practical cloud architecture lessons with regional engineers.
- Member, AFCEA Northern Virginia, connecting federal technology delivery with security, infrastructure, and mission needs.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST