VenkataSivaRamaKrishna Movva

Principal Cloud Solutions Architect

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Professional Summary

- Accomplished Principal Cloud Solutions Architect with 20+ years of experience delivering secure, scalable, and cost-optimized enterprise applications on AWS and Azure.
- Expert in microservices architecture, CI/CD automation, and RESTful API development; successfully reduced deployment cycles by over 50% and improved system responsiveness for high-volume platforms.
- Hands-on technical leader proficient in C# and Python, providing mentorship to engineering teams and driving performance optimization initiatives that yielded tangible gains on key projects.
- Proven ability in architecting HIPAA and PCI DSS compliant solutions, leading security strategy, and managing risk to ensure robust data protection and successful third-party penetration tests.

Core Competencies

Cloud Architecture (AWS & Azure)
Solutions Architecture, Microservices, 12-Factor App, Serverless (Lambda), Containers (ECS, Fargate, Docker), IaC (CloudFormation), EC2, S3, RDS (Aurora, PostgreSQL), VPC, Cognito.

Programming & Frameworks
C# (.NET 6/Core), Python (Boto3, Flask), JavaScript/TypeScript, Angular (4-17), React.js, Node.js, SQL (T-SQL, PL/SQL), NoSQL (DynamoDB, MongoDB).

DevOps & CI/CD
AWS CodePipeline (CodeCommit, CodeBuild, CodeDeploy), Jenkins, Docker, Kubernetes, Git, GitHub, Bitbucket, buildspec.yaml.

Security & Compliance
Secure SDLC, Threat Modeling, IAM (OAuth 2.0, OIDC, JWT), WAF, Data Encryption, HIPAA & PCI DSS Compliance, Vulnerability Management.

AI/Machine Learning
RAG, SLMs, Vector Databases (pgvector), AWS Textract, OCR, NLP, Information Extraction (IE).

Databases & Data Management
SQL Server, PostgreSQL (pgvector), AWS Aurora, Oracle, DynamoDB, MongoDB, Entity Framework.

Data Integration & ETL
Mirth Connect, SSIS, AWS Glue, PySpark.

Professional Experience

Principal Cloud Applications Architect | DSIG IT Solutions Pvt Ltd
Dublin, OH | Feb 2025 – Present

- Directed the architectural health and stability of the LIMS platform, leading initiatives to optimize cloud resources that resulted in measurable cost savings.
- Led root cause analysis for complex production issues and directed vulnerability remediation efforts, ensuring the platform remained secure and compliant with HIPAA standards.
- Proposed a new architectural framework for the platform's monitoring and logging systems, designed to significantly improve issue detection time and system reliability.

Principal Architect | DSIG IT Solutions Pvt Ltd
Hyderabad, India | Nov 2022 – Feb 2025

- Led the full-cycle architectural design of a cloud-native LIMS on AWS, resulting in a successful launch for key enterprise clients.
- Engineered an OCR/NLP pipeline using AWS Textract for automated data extraction, reducing manual data entry by over 80% and improving data accuracy.
- Optimized AWS resource utilization through strategic scalability and performance tuning, achieving more than 60% reduction in monthly operational costs.
- Implemented robust CI/CD pipelines using AWS CodePipeline, decreasing the average deployment cycle to less than an hour and reduced the operational costs.

Technical Architect | Seneca Global (Client: Walgreens, StrataHealth)
Hyderabad, India | Sep 2021 – Oct 2022

- Architected a scalable FHIR PaaS on AWS for CMS interoperability mandates, securely serving data for a large member base.
- Led the architectural design for a SMART on FHIR clinical application, which reduced average patient referral processing time from 48 hours to under 10 hours.
- Directed React.js front-end development and Python (Flask) backend API development, delivering high-throughput APIs with low latency.

Technical Architect | LightHouse Software Solutions
Hyderabad, India | Aug 2018 – Aug 2021

- Led the re-platforming of a legacy EMR to a microservices architecture on AWS, achieving 99.9% uptime and supporting numerous healthcare providers.
- Rapidly architected and delivered a PCI-compliant Telehealth & COVID testing platform in weeks, handling thousands of daily user interactions and processing payments securely via Stripe.
- Designed and architected a comprehensive, HIPAA-compliant healthcare platform from NFR definition to live product, now managing millions of patient records.

Solution Architect / Technology Lead | Multiple Engagements
Bangalore, India | 2013 – 2018

- **TEKSystems (EMC²):** Architected a high-availability HR application suite for thousands of employees, integrating complex SSIS/SSRS data solutions with SAP.
- **Indecomm Global Services:** Led technology strategy for a hospital capacity management system, enhancing CTI IVR and migrating to a modern CI/CD pipeline.
- **EKA Software Solutions:** Designed and developed features for a web-based commodity stock management system, improving performance with optimized LINQ/nHibernate queries.

Education

B. Tech in Information Technology - Sreenivasa Engineering College (JNTU), Chittoor, India   2005