

## Ramesh Marella

Enterprise Cloud & SRE Architect | Multi-Cloud Strategy, Enterprise Architecture, Reliability Engineering & FinOps

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### EXECUTIVE SUMMARY

Enterprise and Cloud Architect with over two decades of experience leading large-scale digital transformation, enterprise architecture, cloud modernization, SRE, FinOps, and governance initiatives across FinTech, SaaS, and regulated environments. Proven ability to architect scalable, secure, compliant, and cost-efficient solutions across AWS, Azure, GCP, and IBM Cloud.

Recognized for leading complex multi-million-dollar programs across the United States and global delivery environments, managing cross-functional teams of up to 80 professionals, and aligning technology strategy with business outcomes, risk posture, operational resilience, and regulatory compliance.

Brings strong advisory capability across multi-cloud governance, reliability engineering, Architecture Review Boards, cost optimization, DevOps automation, cloud security, and AI-driven cloud optimization.

### CORE LEADERSHIP & ADVISORY STRENGTHS

- Enterprise Cloud Architecture & Multi-Cloud Strategy
- Site Reliability Engineering, SLIs, SLOs & Operational Resilience
- AWS, Azure, GCP & IBM Cloud Architecture
- Architecture Governance, ARB Leadership & EA Frameworks
- FinOps, Cost Governance & Cloud Optimization
- Zero Trust Security, HIPAA, SOC 2, FedRAMP & GDPR Alignment
- Cloud Modernization, Migration & Platform Transformation
- DevOps Automation, Terraform, CI/CD & GitHub Actions
- Observability Strategy: Dynatrace, Datadog & Prometheus
- AI-Enabled Cloud Optimization & Cloud AI Platforms
- Stakeholder Management, Executive Communication & Delivery Governance
- Data, Analytics, ML Platforms & Cloud-Native Engineering

### ROLE-ALIGNED CAPABILITY SUMMARY

Ramesh is positioned for Enterprise Cloud and SRE Architect roles requiring advisory leadership across AWS, Azure, Google Cloud, IBM Cloud, reliability engineering, architecture governance, security, compliance, and cost optimization. He has designed and governed multi-cloud architecture frameworks, led Architecture Review Boards, implemented SRE practices, standardized observability and disaster recovery patterns, and delivered measurable optimization outcomes including up to 35% cloud cost reduction. His background combines enterprise architecture depth with hands-on fluency in cloud-native platforms, DevOps automation, SRE operating models, and AI-enabled cloud modernization.

## SELECTED IMPACT HIGHLIGHTS

- Led enterprise-scale technology programs across global delivery environments, managing teams of up to 80 professionals across cloud, infrastructure, application modernization, and delivery functions.
- Delivered measurable cloud cost optimization of up to 35% through FinOps practices, resource optimization, rightsizing, reserved instance modeling, and cloud architecture redesign.
- Designed and governed enterprise architecture frameworks across AWS, Azure, GCP, and IBM Cloud, aligning platform decisions with business strategy, security posture, compliance needs, and operational resilience.
- Established Architecture Review Board practices, reusable architecture patterns, technology roadmaps, capability maps, and reference architectures for modernization and cloud transformation programs.
- Implemented SRE practices including SLIs, SLOs, observability, disaster recovery, failover patterns, auto-healing deployments, and reliability governance to improve enterprise operational resilience.
- Contributed to regulatory-compliant cloud architectures aligned with HIPAA, SOC 2, FedRAMP, ISO27001, and GDPR requirements across regulated and enterprise environments.
- Advanced research and professional thought leadership in multi-cloud governance, predictive reliability, AI-driven anomaly detection, self-healing systems, and cloud-native SRE frameworks.
- Recognized with the High Performance Achiever Award at Wipro Technologies for high-impact enterprise solutions and leadership excellence.

## PROFESSIONAL EXPERIENCE

### Research & Thought Leadership Initiatives

June 2025 – Present

- Designed and developed a Multi-Cloud Governance and Site Reliability Engineering framework to standardize operations across AWS, Azure, and GCP environments.
- Conducted independent research on cloud reliability, observability, governance models, predictive reliability, AI-driven anomaly detection, and self-healing systems for distributed cloud architectures.
- Implemented a FinTech-focused use case demonstrating 99.99% availability, 40% reduction in MTTR, and approximately 30% cost optimization within the research model.
- Published technical insights through IEEE/SSRN and shared open contributions through GitHub and LinkedIn to support knowledge sharing across multi-cloud and SRE communities.
- Submitted research papers to CloudCom 2026, FiCloud 2026, CISS 2026, and AIBDCC 2026 conferences.

Taciti Consulting / Lam Research — Plano, TX

**Enterprise Architect** | May 2024 – May 2025

- Defined an enterprise cloud architecture blueprint across five core platforms using AWS-native services, aligning architecture direction with Lam Research transformation strategy and security posture.
- Maintained capability maps and technology roadmaps to connect business strategy, architectural planning, platform modernization, and governance priorities.
- Led enterprise-wide Architecture Review Board activities for cloud modernization, creating reusable architecture assets for multi-region disaster recovery and auto-healing deployments.
- Partnered with platform architects to standardize CI/CD, observability, infrastructure automation, and disaster recovery using Terraform and GitHub Actions.
- Evaluated emerging technologies and delivered MVPs for innovation pilots aligned with strategic technology themes and enterprise architecture direction.

## EZ4 Technologies — Plano, TX

**Enterprise Architect** | July 2023 – April 2024

- Guided enterprise-wide SRE architecture strategy using standardized infrastructure-as-code stacks, reusable cloud patterns, and governance-aligned architecture practices.
- Established reference architecture documentation for AWS-hosted microservices, covering availability, failover, scaling, and resilient deployment patterns.
- Developed observability standards and SLO dashboards for cross-functional teams, presenting findings through monthly governance forums.
- Assessed architectural redundancies across the application estate and recommended consolidation strategies to support modernization and operational efficiency.

## Blue Yonder — Scottsdale, AZ / Dallas, TX

**Enterprise Architect** | January 2021 – January 2023

- Served as architectural liaison between FinOps and engineering teams, leading application portfolio rationalization, cost reviews, and cloud service design improvements.
- Maintained cost and performance heatmaps to influence architecture decisions, lifecycle policies, and cloud consumption governance.
- Built compliance-ready monitoring frameworks for AWS services and integrated them into broader enterprise technology strategy.
- Facilitated reuse of FinOps tagging standards, automation templates, and lifecycle governance practices across delivery teams.

## Magtech Consulting / Fast.co — Manville, NJ

**Enterprise Architect** | May 2020 – January 2021

- Defined and implemented modular cloud-native architecture patterns for data lake, machine learning, and analytics workloads using AWS Glue, EMR, and SageMaker.
- Architected microservices using ECS, EKS, and Fargate with reusable deployment templates to improve consistency, modularity, and environment alignment.

- Conducted architectural reviews for cloud cost governance, including rightsizing audits and reserved instance modeling, contributing to a 35% reduction in AWS spend without service degradation.
- Delivered analytics dashboards in Amazon QuickSight, expanding access to real-time insights and supporting data-driven decision-making across business domains.
- Collaborated with data, ML, and application architects to align cloud architecture blueprints with enterprise standards and compliance policies.

## Micronet Technicks Pvt Ltd — Bangalore, India

**Enterprise Architect** | December 2016 – September 2018

- Spearheaded implementation of Zero Trust architecture principles across cloud platforms using IAM, MFA, GuardDuty, KMS, and AWS Config in alignment with enterprise security frameworks.
- Defined and enforced cloud security compliance standards aligned with ISO27001, SOC 2, and GDPR, embedding controls into architecture decisions and supporting successful audits.
- Designed and conducted disaster recovery drills across AWS multi-AZ and multi-region environments, contributing to a 99.9% SLA for critical services.
- Partnered with solution architects to integrate security controls into CI/CD pipelines using Jenkins and AWS-native tooling, advancing shift-left DevSecOps practices.
- Advised engineering leadership on architecture guardrails and governance models for secure, compliant delivery across business-critical platforms.

## Wipro Technologies — USA, UK, India

**Enterprise Architect** | November 2002 – November 2016

- Led multiple large-scale enterprise technology programs across the United States and global delivery environments, managing cross-functional teams of approximately 80 professionals.
- Defined and executed hybrid cloud strategies across AWS, Azure, and GCP, supporting regulatory alignment with HIPAA and FedRAMP while reducing infrastructure costs by 25%.
- Established and governed enterprise architecture frameworks, leading Architecture Review Boards to standardize design practices and align technology decisions with business and compliance objectives.
- Directed large-scale modernization initiatives spanning cloud migration, platform transformation, automation, scalability improvement, and operational resilience.
- Led innovation initiatives and proof-of-concept programs to evaluate emerging technologies and inform enterprise IT strategy; recognized with the High Performance Achiever Award.

## RESEARCH, PUBLICATIONS & PROFESSIONAL SIGNALS

- Developed Multi-Cloud Governance and Site Reliability Engineering framework focused on AWS, Azure, and GCP operational standardization.

- Published technical insights in IEEE/SSRN and contributed open knowledge through GitHub and LinkedIn.
- Research focus includes cloud reliability, observability models, governance, predictive reliability, AI-driven anomaly detection, and self-healing cloud architectures.
- Research papers submitted to CloudCom 2026, FiCloud 2026, CISS 2026, and AIBDCC 2026.

## CERTIFICATIONS, TOOLS & TECHNOLOGIES

**Certifications & Enrolled Programs:** IBM Cloud Solutions Architecture Certified; Microsoft Power BI Certified; AWS Cloud AI Enrolled; Azure Cognitive Services Enrolled; TOGAF Enrolled; Tableau AI Enrolled.

**Cloud Platforms:** AWS, Azure, Google Cloud Platform, IBM Cloud, multi-cloud architecture, hybrid cloud strategy.

**Cloud AI & Data Platforms:** AWS SageMaker, AWS Bedrock, Azure Cognitive Services, GCP AI capabilities, AWS Glue, EMR, Amazon QuickSight, Tableau AI, Microsoft Power BI.

**SRE, Observability & Operations:** SRE, SLIs, SLOs, observability strategy, Dynatrace, Datadog, Prometheus, disaster recovery, multi-region resilience, auto-healing deployments.

**DevOps, Automation & Engineering:** Terraform, CI/CD, GitHub Actions, Jenkins, ECS, EKS, Fargate, infrastructure as code, lifecycle automation.

**Security, Governance & Compliance:** Zero Trust, IAM, MFA, GuardDuty, KMS, AWS Config, HIPAA, SOC 2, FedRAMP, ISO27001, GDPR, Architecture Review Boards, EA frameworks.

**Generative AI Tools:** ChatGPT, Claude AI, Gemini, GitHub Copilot.

**Education:** Professional MBA, Campbellsville University; MS in Information Technology Management, Campbellsville University; MS in Data Science and Artificial Intelligence in progress, Campbellsville University; Doctorate in Strategic Leadership in progress, Liberty University.

## CLIENT-FACING POSITIONING STATEMENT

Ramesh brings senior enterprise architecture and cloud advisory leadership for organizations modernizing complex technology estates across AWS, Azure, GCP, and IBM Cloud. He is effective in client-facing environments that require strategy-to-execution alignment, architecture governance, SRE adoption, FinOps discipline, regulatory awareness, stakeholder management, and resilient cloud platform design. His background is well suited for enterprise cloud transformation, SRE operating model design, architecture review leadership, cloud cost optimization, and secure modernization programs in regulated and large-scale IT environments.