

B. Amarnath Reddy

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SENIOR CLOUD PLATFORM ARCHITECT | DEVOPS TRANSFORMATION LEADER | AWS FINOPS & AI ENABLEMENT

Strategic Cloud Architect with 10+ years of experience designing enterprise AWS platforms that drive scalability, cost optimization, resilience, and AI enablement. Proven leader in DevOps transformation, FinOps governance, Kubernetes modernization, and production SRE operations supporting mission-critical financial systems.

Recognized for architecting 99.99% uptime platforms, optimizing cloud spend by 20–30%, and enabling AI/ML-ready infrastructure aligned with modern data and GenAI workloads.

CORE EXPERTISE

- **Cloud & Architecture:** AWS (EKS, EC2, RDS, S3, Lambda, API Gateway, IAM, VPC, ALB), Multi-AZ HA/DR, Well-Architected Framework
 - **DevOps & Platform Engineering:** Terraform, CloudFormation, Jenkins, GitHub Actions, GitLab CI, Nexus, Chef, Blue-Green & Canary Deployments
 - **FinOps & Cloud Optimization:** Cost allocation tagging strategy, Reserved Instances & Savings Plans optimization, rightsizing, auto-scaling governance, budget monitoring (CloudWatch, Datadog), cost anomaly detection
 - **AI/ML & GenAI Enablement:** ML-ready infrastructure design, scalable data pipelines, containerized AI workloads (EKS), GPU-aware compute planning, API-based GenAI integration architecture, secure model deployment patterns
 - **Containers & Reliability:** Docker, Kubernetes (EKS), Helm, SRE practices, incident response, observability
 - **Leadership:** Global team leadership (5–11 engineers), architecture governance, DevOps transformation strategy
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PROFESSIONAL EXPERIENCE

Cadence System Design

Principal Engineer / Cloud Solution Architect

2026 – Present

- Architected enterprise AWS platform supporting 20+ cloud-native applications, improving deployment frequency by **40%** and reducing infrastructure provisioning time by **60%** via reusable Terraform modules.
 - Led Kubernetes (EKS) modernization initiative, migrating monoliths to microservices and improving scalability by **50%** while reducing compute costs by **20%**.
 - Established FinOps governance model including tagging policies, cost dashboards, Savings Plan optimization, and workload rightsizing—driving **~25%** annual cloud cost savings.
 - Designed AI/ML-ready infrastructure patterns to support containerized model workloads and API-based GenAI integrations, ensuring secure IAM isolation and scalable compute layers.
 - Implemented automated CI/CD pipelines enabling zero-downtime blue-green and canary deployments, reducing production incidents by **30%**.
 - Instituted SRE reliability framework achieving **99.99%** uptime across mission-critical financial systems.
 - Led and mentored **11** engineers across regions, fostering DevOps culture and platform standardization.
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S&P Global

Senior Lead DevOps Engineer / AWS Solution Architect

2022 – 2026

- Architected enterprise AWS platform supporting 20+ cloud-native applications, improving deployment frequency by **40%** and reducing infrastructure provisioning time by **60%** via reusable Terraform modules.
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Broadridge Financial Solutions

Enterprise Cloud Architect / Lead DevOps Engineer

2018 – 2022

- Led migration of **28+** enterprise applications to AWS using Infrastructure-as-Code, reducing legacy infrastructure footprint by **30%**.
 - Built standardized Terraform frameworks adopted across multiple product teams.
 - Designed secure VPC segmentation, IAM least-privilege models, and centralized monitoring solutions meeting compliance standards.
 - Drove CI/CD transformation reducing deployment cycle time from weeks to days.
 - Introduced cost-visibility dashboards and resource optimization strategies, improving cloud cost transparency across business units.
 - Partnered with data teams to enable scalable compute infrastructure for analytics and ML experimentation workloads.
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Tata Consultancy Services

Cloud Developer

2015 – 2018

- Developed distributed cloud-native applications using Python, Java, and Node.js.
 - Contributed to high-availability AWS migration programs.
 - Automated infrastructure deployment scripts, reducing manual provisioning effort by **35%**.
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2026 STRATEGIC VALUE ADD

- Enterprise Platform Engineering Leadership
- FinOps Cost Optimization Strategy
- AI/ML Infrastructure Enablement
- GenAI API Integration Architecture
- Kubernetes at Scale

- Secure Multi-Account AWS Architecture
 - SRE & Production Excellence
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CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate**
- **Terraform Associate** (In Progress)