

RAJESH ROSHAN PRASAD

LEAD DEVOPS | PLATFORM ENGINEERING | SITE RELIABILITY ENGINEERING

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AWS CERTIFIED SOLUTIONS ARCHITECT – PROFESSIONAL

PROFESSIONAL SUMMARY

Lead DevOps and Platform Engineer with 9+ years of experience building and operating production cloud, Kubernetes, and CI/CD platforms across AWS, Azure, and GCP. Brings differentiated experience across a UAE government IoT platform and latency-sensitive high-frequency trading infrastructure, with deep hands-on expertise in Terraform, EKS/AKS/GKE, GitOps, observability, automation, and production incident response.

CORE COMPETENCIES

Cloud & Platforms: AWS, Azure, GCP, Kubernetes (EKS, AKS, GKE), Docker, Helm

IaC & Automation: Terraform, Ansible, CloudFormation, Python, Bash

CI/CD & Release: Jenkins, AWS CodePipeline, GitHub Actions, Azure DevOps, Bitbucket Pipelines, Argo CD

Observability & Security: Prometheus, Grafana, Loki, Tempo, OpenTelemetry, Datadog, ELK, Trivy, IAM, RBAC

Networking & Data: VPC/VNet, VPN, DNS, Load Balancers, APISIX, Kafka, NATS, PostgreSQL, MySQL, MongoDB

PROFESSIONAL EXPERIENCE

Lead Platform / DevOps Engineer

Sep 2025 – Present

WioT360 / Innovent Integrated Solutions | Abu Dhabi, UAE

- Own platform engineering and production reliability for a UAE government IoT fleet platform spanning Kubernetes workloads, messaging, databases, API routing, and observability across stage and production environments.
- Built Azure landing-zone components with Terraform, including VNets, NSGs, RBAC, Azure Policy, and hub-and-spoke networking; supported secure Kubernetes platform connectivity and application delivery.
- Implemented Argo CD-based GitOps delivery and standardized Jenkins/Bitbucket workflows with approval gates, Helm releases, drift visibility, and rollback controls, reducing deployment turnaround by 75%.
- Implemented Prometheus, Grafana, Loki, Tempo, and OpenTelemetry monitoring and tracing; rationalized alerting and reduced non-actionable on-call noise by 60%.
- Led P1/P2 incident triage, root-cause analysis, post-incident reviews, and runbook improvements across application, networking, storage, messaging, and certificate failures, reducing MTTR by 40%.
- Automated certificate rotation, backup validation, and recurring platform housekeeping with Python and Bash, eliminating more than 8 hours of manual work each week.
- Deployed and validated production messaging and data services including Kafka, NATS/JetStream, MySQL, and PostgreSQL, covering cluster health, persistence, service discovery, and application connectivity.
- Established Kubernetes operational standards for resource requests and limits, health probes, persistent storage, rollout validation, and post-deployment checks across microservice workloads.

Environment: Azure, Kubernetes, Terraform, Helm, Jenkins, Bitbucket, APISIX, Prometheus, Grafana, Loki, Tempo, OpenTelemetry, Kafka, NATS, MySQL, Python, Bash

Lead SRE / DevOps Engineer

Oct 2023 – Jul 2025

QuantBox Research (Emint 1729) | Bangalore, India

- Designed resilient AWS and GCP infrastructure for latency-sensitive trading workloads, using cross-region replication and site-to-site VPN connectivity to reduce disaster-recovery time from 4 hours to under 30 minutes.
- Created reusable Terraform modules and automated validation and drift-detection controls, cutting provisioning lead time by 70% and saving more than 10 engineering hours per week.
- Re-engineered Jenkins and AWS CodePipeline release workflows with automated testing and rollback, enabling multiple controlled production releases per day instead of weekly deployments.
- Introduced Trivy container scanning and release-quality checks into CI/CD, shifting vulnerability detection to pre-production and improving deployment governance.
- Led high-severity incident response and converted recurring failure patterns into operational runbooks, reducing repeat production incidents by 40%.
- Partnered with engineering stakeholders on release readiness, production-change reviews, capacity risks, and recovery procedures for financially sensitive workloads.

Environment: AWS, GCP, Terraform, Jenkins, AWS CodePipeline, Python, Trivy, Linux, Networking

EARLIER EXPERIENCE

Lead DevOps Engineer

Jun 2022 – May 2023

Signify North America (Philips Hue) | San Francisco, USA

- Optimized AWS infrastructure through Terraform-based rightsizing, Reserved Instance planning, and governance controls, delivering approximately \$24K in annual savings.
- Implemented blue-green releases and automated rollback in Jenkins, increasing deployment frequency while reducing release risk for consumer IoT services.
- Built Datadog synthetic monitoring and Lambda-based auto-remediation for known failure modes, reducing on-call pages by approximately 35% in the first month.
- Developed Terraform controls for audit logging, access reviews, and policy enforcement that supported successful SOC 2 Type II compliance; mentored two engineers on Kubernetes and IaC practices.
- Worked with application and security teams to operationalize cloud changes through peer-reviewed infrastructure code, controlled releases, monitoring, and rollback procedures.

Environment: AWS, Terraform, Jenkins, Kubernetes, Datadog, Lambda, IAM

Senior DevOps Engineer

Sep 2020 – Jun 2022

Johnson Controls | San Jose, USA

- Operated production EKS and GKE clusters supporting 20+ smart-building telemetry and analytics microservices.
- Engineered Kafka-based event processing with exactly-once delivery semantics for millions of sensor events per day.
- Introduced Prometheus/Grafana SLO-based alerting and reusable Terraform modules across development, staging, and production, reducing alert volume by approximately 50% and provisioning time by 60%.
- Supported the reliability of distributed telemetry components across Kafka, Flink, Druid, and ZooKeeper, troubleshooting service health, capacity, and data-flow issues.

Environment: AWS EKS, GCP GKE, Kafka, Prometheus, Grafana, Terraform

DevOps Engineer

Oct 2017 – Sep 2020

AXS LLC | Los Angeles, USA

- Designed AWS network foundations for a cloud-migration program, including VPCs, subnets, security groups, NAT gateways, and site-to-site VPNs, contributing to a 35% infrastructure-cost reduction.
- Automated provisioning and configuration across 100+ servers using Terraform and Ansible, and implemented Jenkins delivery pipelines that reduced manual deployment effort and release time by 80%.
- Supported mixed Linux and Windows application estates, including IIS and SQL Server workloads, while improving operational consistency through configuration automation and deployment tooling.

Environment: AWS, Terraform, Ansible, Jenkins, Linux, Networking

Systems Engineer

Feb 2017 – Oct 2017

Nemo IT Solutions – Client: Wells Fargo | Texas, USA | Contract

- Supported infrastructure and AWS migration activities in a regulated banking environment, with emphasis on IAM, network segmentation, access controls, operational support, and compliance evidence.
- Partnered with application, security, and infrastructure teams to troubleshoot production issues and standardize repeatable server and environment configuration through automation.
- Maintained operational documentation and change evidence for controlled infrastructure updates in a regulated enterprise environment.

Environment: AWS, IAM, Ansible, Linux, Windows Server, Networking

LEADERSHIP & OPERATING MODEL

- Production ownership spanning platform reliability, release governance, incident command, root-cause analysis, automated validation, rollback controls, and operational readiness.
- Cross-functional leadership with application, security, networking, database, and government stakeholders; mentoring engineers on Kubernetes, IaC, troubleshooting, and safe production delivery.

CERTIFICATIONS & EDUCATION

AWS Certified Solutions Architect – Professional (renewed 2025)
AWS Certified Solutions Architect – Associate
Cisco CCNA

M.S. Computer Science, University of Illinois Springfield
GPA 3.78/4.0 | 2014–2016
B.Tech Computer Science, University of Pune | 2009–2013