

RUPESH KUMAR

Senior DevOps & Cloud Security Engineer · DevSecOps · Cloud Platform Engineering · SRE

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PROFESSIONAL SUMMARY

5+ year Senior DevOps & Cloud Security Engineer. Expert in **Shift Left DevSecOps**, **Zero Trust** architecture, CSPM, Secrets Management, and RBAC/IAM hardening. Delivers multi-cloud migrations, CI/CD automation, and app modernisation for enterprise clients across **Canada & the US**. Engineering lead mentoring **7-8 engineers**. Proven: **90% deploy time reduction** · **40% FinOps cost savings** · **99.99% uptime**.

TECHNICAL SKILLS

- **Cloud:** Azure (Primary) · AWS · GCP · Azure Container Apps · Azure Front Door · Application Gateway · Azure Synapse · Azure Data Factory · Hybrid Cloud
- **Security:** Zero Trust · Defender for Cloud · Defender for DevOps · Defender for Containers · Microsoft Purview · CSPM · SAST/DAST · OWASP ZAP · Trivy · SonarQube · WAF · Secrets Management (Azure Key Vault) · RBAC/IAM · Least Privilege · Supply Chain Security
- **DevSecOps & CI/CD:** Shift Left · GitHub Actions · Azure DevOps · Jenkins · GitOps · ArgoCD · APIOPS Methodology · Blue-Green Deployment · Paketo Buildpacks · Quality Gates
- **Containers & Orchestration:** Kubernetes (CKA) · Docker · AKS · AWS EKS · Helm · ArgoCD · ACR
- **IaC:** Terraform · Ansible · Bicep · ARM Templates · Policy-as-Code · Python · Bash · PowerShell · Go
- **Observability & FinOps:** Grafana · Prometheus · Azure Monitor · Log Analytics · SLO/SLI · Cost Tagging · Reserved Instances · Savings Plans · Power BI
- **Networking:** VNet · NSG · Private Endpoints · Azure Front Door · CDN · DNS · Load Balancing
- **Leadership:** Team Mentoring (7-8 Eng.) · Agile/Scrum · Cross-functional Collaboration · Client Management

PROFESSIONAL EXPERIENCE

Senior DevOps & Cloud Security Engineer • Current

Dec 2022 – Present

Optimus Information India Pvt. Ltd. · Noida, India

- Lead and mentor **7-8 DevOps engineers** from onboarding to production-ready capability - improving delivery quality and incident response times.
- Implement **Shift Left DevSecOps** pipelines: SAST (SonarQube), DAST (OWASP ZAP), and container scanning (Trivy) in GitHub Actions and Azure DevOps with enforced security quality gates on every commit.
- Architect **Zero Trust security posture** using Defender for Cloud, Defender for DevOps, and Defender for Containers - unified CSPM across multi-tenant Azure environments.
- Implement **RBAC/IAM hardening** and Least Privilege access across Azure and AWS; manage Secrets via Azure Key Vault integrated into CI/CD workflows.
- Deploy **Microsoft Purview** for enterprise data governance, compliance management, and information protection across multi-tenant environments.
- Apply **APIOPS methodology** - GitOps practices for API lifecycle management using Azure APIM, Front Door, and Application Gateway with WAF - for CA/US enterprise clients.
- Lead **AWS-to-Azure and GCP-to-Azure migrations** - workload re-architecture, identity federation, network redesign, and cutover execution.
- Modernise Java apps from Azure Spring Apps to Azure Container Apps using **Paketo Buildpacks** - reproducible, supply-chain-secure builds with no code changes.
- Drive **FinOps cost governance** - 40% savings via Reserved Instances, Savings Plans, right-sizing, and multi-subscription cost allocation tagging.
- Achieved **Advanced Specialisation in DevOps** using GitHub Actions (Microsoft Partner ecosystem). 4× Employee of the Month. Best Newcomer Award.

Cloud Administrator

Feb 2021 – Nov 2022

Wipro Ltd. (NIC Project – Government of India) · Noida, India

- Managed Azure infrastructure (VMs, VNets, NSGs, Storage, AKS clusters, RBAC) for **National Informatics Centre** - a mission-critical Government of India agency.
- Implemented **SLO/SLI-driven monitoring** with Grafana and Prometheus - reduced MTTD by 40% through proactive alerting and performance dashboards.
- Automated provisioning with **Terraform and Ansible** - eliminated configuration drift, cut environment setup time by 50%.
- Built and maintained CI/CD pipelines (Azure DevOps, Jenkins) for government application releases; assisted with server hardening and IAM policy management.

KEY PROJECTS & MEASURABLE IMPACT

Gov Utilities Commission Portal

Oct 2023 – Jan 2024

99.99% uptime · 40% faster page loads · 50% faster recovery · 30% faster deployments

- Deployed multisite WordPress on Azure with zero-downtime blue-green deployments via Azure Front Door CDN. Provisioned with Terraform; hardened with WAF rules, NSGs, RBAC. Automated backups cut recovery time 50%.

Enterprise Data Warehouse Platform

Oct 2024 – Present

Azure Synapse · ADF · Power BI · GitOps multi-environment deployments

- CI/CD pipelines in Azure DevOps automating Synapse Analytics, Data Factory, and Power BI deployments with Git-controlled workspace cloning across dev/test/prod.

DevSecOps Node.js CI/CD Pipeline

Mar 2024

+30% code quality · +40% security coverage · -25% container vulnerabilities · 35% faster pipeline

- Shift Left Jenkins pipeline: SonarQube (SAST) + OWASP ZAP (DAST) + Trivy (container scanning) with enforced security gates.

Three-Tier App on AWS EKS

Mar – Apr 2024

-20% operational cost · 99.9% availability · 50% better traffic handling

- React/Node.js/MongoDB deployed on AWS EKS with ALB and Kubernetes auto-scaling - reduced costs 20%, handled 50% more traffic vs. previous architecture.

POS Machine Software Platform

Jul 2023 – Present

90% deploy time reduction · 40% cost savings · 95% same-day issue resolution rate

- Terraform automation (90% faster deploys) + FinOps controls (Reserved Instances + Savings Plans) + optimised Azure DevOps CI/CD.

Multi-Tier Terraform & Ansible HA Infrastructure

Apr 2024

85% less manual effort · 99.95% HA · zero downtime at 60% traffic spike

- Multi-tier AWS HA infrastructure - Terraform + Ansible reduced manual effort 85%, cut deploy time 50%, sustained 99.95% availability under 60% traffic surge.

CERTIFICATIONS

AZ-104 - Microsoft Azure Administrator Associate

✓ Achieved

AZ-400 - Azure DevOps Engineer Expert

✓ Achieved

CKA - Certified Kubernetes Administrator

✓ Achieved

AZ-900 - Microsoft Azure Fundamentals

✓ Achieved

GitHub - GitHub Administration Certification

✓ Achieved

AZ-500 - Azure Security Engineer Associate - In Progress

🔄 Q2 2026

AZ-700 - Azure Network Engineer Associate - In Progress

🔄 Q2 2026

EDUCATION

B.Tech – Computer Science Engineering

2016 – 2020

SRM University, Sonipat, Haryana