Nidhi

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Education

University of Liverpool — Liverpool, UK
MSc – Microelectronic Systems — *Sep 2025 – Sep 2026*
Sahyadri College of Engineering and Management (VTU) — Mangalore, INDIA
Bachelor of Engineering – Electronics and Communication — *Aug 2019 – Jul 2023*

Experience

Kyndryl — Bengaluru, IN
Associate DevOps Engineer — *Jul 2023 – Aug 2025*

- Built and maintained 100+ Jenkins CI/CD pipelines (Groovy) for build, deployment, batch and cron jobs, integrating SonarQube quality gates, Snyk dependency scans and Nexus artifact storage; supported weekly and monthly releases.
- Managed AWS infrastructure across 4 environments (build, QA, staging, production) including EC2, VPC, IAM, Auto Scaling Groups, Load Balancers, S3 and CloudWatch.
- Automated infrastructure provisioning with Terraform across all 4 environments, cutting environment setup time by ∼60% and eliminating manual configuration errors.
- Supported 10 microservices on Amazon EKS – image builds, cluster configuration and workload troubleshooting – with structured rollout and rollback procedures to minimise deployment risk.
- Logged in to Linux EC2 instances and EKS nodes via SSH to troubleshoot incidents raised through Jira and ServiceNow tickets within SLA – checking services (systemctl), logs (journalctl), disk usage (df, du) and processes.
- Implemented YAML-based Azure DevOps pipelines for a .NET application (build, test, packaging), using ARM templates to provision Azure resources and deploying artifacts to IBM HTTP Server environments.
- Delivered AI/GenAI PoCs (Battery Management System and ITSM analytics) with containerised inference pipelines using NVIDIA CUDA, NGC/NIM and Triton Inference Server; prototyped LLM-based agents for internal automation.
- Supported infrastructure and pipeline delivery for a fintech client, working to financial-sector compliance and enterprise deployment standards.

Projects

CloudMart – Production-grade DevSecOps platform on AWS EKS & Azure AKS — gitops · services · frontend

- Modular Terraform provisions a multi-AZ VPC, EKS (autoscaling 2–5), RDS PostgreSQL, ElastiCache Redis and Route 53 with S3/DynamoDB remote state; ArgoCD + Kustomize GitOps with self-heal and SHA-pinned image tags.
- GitHub Actions security gate runs Gitleaks, Semgrep and Trivy in parallel before build, then Trivy image scan + Syft SBOM; caught and patched 3 transitive CVEs. IRSA (zero static credentials), External Secrets Operator, cert-manager TLS and Kyverno policies.
- Prometheus, Grafana, Loki and custom Alertmanager rules routed via SNS; Node.js, FastAPI and Kafka (Strimzi) services with 22 unit tests gating the build, Traefik ingress and HPA autoscaling.

Certifications

- Microsoft Azure Administrator Associate (AZ-104)
- AWS Certified Cloud Practitioner
- Microsoft Azure AI Fundamentals (AI-900)
- HashiCorp Terraform Associate (003)
- Microsoft Azure Fundamentals (AZ-900)
- Certified AI Engineer – REVA Academy (Kyndryl)

Skills

Cloud & Infrastructure: AWS (EKS, EC2, VPC, IAM, RDS, ElastiCache), Azure (VMs, VNet, Entra ID, RBAC, Key Vault, Azure Monitor, AKS), Terraform, ARM templates, Bicep, Ansible, Linux.
DevOps & CI/CD: Jenkins, GitHub Actions, Azure DevOps, ArgoCD, Kustomize, Helm, Docker, Kubernetes, Git, Python, Bash, Groovy, Jira, ServiceNow.
DevSecOps: SAST (Semgrep, SonarQube), SCA (Snyk, Trivy), DAST (Burp Suite), secrets scanning (Gitleaks), Kyverno, IRSA, External Secrets Operator, cert-manager, Nexus.
Observability & Data: Prometheus, Grafana, Loki, Alertmanager, CloudWatch, Kafka, Redis, PostgreSQL.
AI/ML: NVIDIA CUDA, NGC/NIM, Triton Inference Server, LLM-based agents, RAG.

Publication

Analysis of High-Performance Low Power Full Adder Circuit – IEEE ICICACS 2023 (Scopus indexed) DOI