

Shivam Rana

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Summary:

Cloud & DevOps Engineering Leader with 8+ years of experience delivering large-scale infrastructure and platform transformation programs in global banking environments.

Strong expertise in Kubernetes, cloud-native architectures, and CI/CD ecosystems, with proven success in building scalable, resilient platforms in regulated environments.

Recently expanded into MLOps and AI platform fundamentals, with hands-on exposure to MLflow-based model deployment workflows on Kubernetes and understanding of model lifecycle management and LLMOps concepts.

Experienced in driving cross-functional delivery, aligning platform capabilities with business goals, and enabling future-ready cloud and AI platforms.

AI, MLOPS & AUTOMATION EXPERIENCE

- Completed hands-on coursework in MLOps, focusing on model lifecycle management, deployment, and monitoring.
- Built sample ML deployment pipelines using MLflow integrated with Kubernetes environments.
- Gained practical understanding of model versioning, experiment tracking, and containerized model serving.
- Familiar with concepts of LLMOps, scalable inference, and AI platform architecture patterns.

CORE COMPETENCIES

- Cloud Platform Engineering (AWS, GCP, Azure)
- Kubernetes & Containerized Infrastructure (OpenShift)
- CI/CD & DevOps Strategy
- Infrastructure as Code (Terraform)
- Platform Modernization & Automation
- Stakeholder Management & Program Delivery
- Production Release & Risk Management
- Monitoring, Logging & Observability
- Disaster Recovery & High Availability
- MLOps Fundamentals & Model Deployment (MLflow – Hands-on exposure)

PROFESSIONAL EXPERIENCE

Barclays – AI/MLOps / Platform Engineering Lead

New Jersey | June 2021 – Present

Next Gen Settlement System (Investment Banking)

Role: Platform & Infrastructure Lead

- Led end-to-end delivery of a large-scale infrastructure modernization program supporting 25+ microservices.
- Designed and implemented CI/CD pipelines for containerized applications deployed on Kubernetes (OpenShift).
- Architected scalable, high-availability environments across Dev, UAT, SIT, and Production.
- Built and managed multi-datacenter active-passive infrastructure ensuring resilience and failover readiness.

- Integrated enterprise monitoring tools (AppDynamics, Kibana, ITRS) for observability.
- Conducted disaster recovery drills to validate RTO/RPO objectives in regulated environments.
- Designed infrastructure patterns extensible for data and future AI/ML workloads.

Impact:

- Improved deployment efficiency by 60%
- Achieved high production resiliency across environments
- Enhanced system observability and operational stability

Legacy Collateral System Decommissioning

Role: Technical Program Lead

- Led decommissioning strategy for a high-risk legacy system with zero production impact.
- Defined roadmap, risk mitigation plans, and stakeholder communication strategy.
- Integrated 5 modern services using DevOps best practices.
- Implemented CI/CD improvements and increased test coverage to 90%.

Cash Payment Processor Modernization

Role: Platform Modernization Lead

- Led CI/CD transformation across business-critical applications.
- Automated OS and middleware upgrades across enterprise systems.
- Acted as escalation point during production incidents and war-room calls.

Impact:

- Reduced manual deployment effort by 60%
- Achieved full CI/CD adoption across applications

Enterprise Career Website (AWS)

Role: Cloud Infrastructure Lead

- Designed and deployed a 3-tier AWS architecture with high availability and fault tolerance.
- Configured VPC, subnets, load balancers, auto-scaling groups, and Route 53.
- Implemented monitoring using Amazon CloudWatch.

Impact:

- Achieved 100% uptime
 - Established reusable AWS architecture framework
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MLOps & AI PLATFORM EXPOSURE

- Completed hands-on coursework in MLOps focusing on model lifecycle management and deployment.
- Built sample ML pipelines using **MLflow** for experiment tracking and model versioning.
- Deployed containerized ML models on Kubernetes environments.
- Gained understanding of model serving, CI/CD for ML, and scalable inference patterns.
- Familiar with LLMOps concepts including model lifecycle, orchestration, and monitoring.

Moksa Technologies – Software Engineer (Customer-Facing Platform)

2018 – 2021

- Developed and supported **customer-facing applications** using microservices architecture.
- Built and maintained CI/CD pipelines and deployment automation frameworks.
- Built and maintained **automation scripts and deployment pipelines**.
- Provided L3 production support, troubleshooting distributed system issues and API failures.
- Integrated external systems using **REST APIs**, improving customer experience and reliability.
- Collaborated with operations teams to maintain SLA compliance and system uptime.

Skills Set:

Languages: Python, Java, C++, JavaScript

Cloud: AWS, GCP, Azure

DevOps: Terraform, GitHub Actions, Jenkins, Ansible

Containers: Docker, Kubernetes, OpenShift

Monitoring: Grafana, Splunk, ELK

AI / MLOps: MLflow, Model Deployment (Kubernetes – basic), Model Lifecycle Concepts, LLMOps

Education:

Professional Certification, Cloud & DevOps, September 2024

Massachusetts Institute of Technology, USA

Master of Science, Computer Science, December 2017

California State University, Fullerton, USA

Bachelor of Engineering, Computer Science, July 2015

Visvesvaraya Technological University, India

Certifications:

AWS Solutions Architect-Associate, Google-Associate Cloud Engineer, Oracle Cloud Associate, DataBricks GenAI, HashiCorp Certified: Terraform Associate