

MANISH KUMAR SINGH

Senior DevOps Engineer

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PROFESSIONAL SUMMARY

Results-driven DevOps Engineer with 7+ years of experience in architecting, automating, and optimizing highly available, scalable, and secure cloud and on-premises infrastructures. Expertise in **Microsoft Azure and AWS Cloud, Kubernetes orchestration, CI/CD pipeline automation, and Infrastructure as Code (IaC)** using industry-leading DevOps tools and practices. Improving system performance and reliability and minimizing operational downtime through automation and proactive Monitoring. Strong hands-on experience in containerization, Kubernetes cluster administration, scripting, configuration management, observability solutions.

EXPERIENCE

Livlong Protection & Wellness Solutions Limited (LPWSL)

Mumbai— Senior DevOps Engineer

August 2022 - PRESENT

- Manage and optimize Azure cloud and AWS infrastructure including Virtual Machines, Networking, and Storage solutions.
- Deploy and maintain Kubernetes clusters using Azure Kubernetes Service (AKS) ensuring high availability of microservices .
- Automate containerized deployments using Docker and Helm across Dev, Staging, and Production environments.
- Design and maintain CI/CD pipelines in Azure DevOps, accelerating release cycles and minimizing deployment failures.
- Develop shell scripts to automate system administration tasks, backups, and server maintenance.
- Implement real-time monitoring and alerting using Azure Monitor and Grafana .
- Improve infrastructure reliability and reduce downtime through proactive performance tuning.

Tata Consultancy Service (Payroll Mbit) , New Delhi— DevOps Engineer

August 2021 - July 2022

- Managed API integrations and enterprise application deployments.
- Worked with Azure Storage, Cosmos DB, and Enterprise Service Bus (ESB) solutions.
- Developed and maintained MuleSoft integrations for Java-based enterprise applications.
- Built backend services using Java and Spring Boot framework.
- Automated routine operational tasks using Bash and Python scripts, improving workflow efficiency.
- Contributed to the ASOS (UK) enterprise e-commerce platform modernization.

TECHNICAL SKILLS

Cloud Platforms:

Azure and AWS Cloud

Databases:

Azure SQL , MySQL,

MongoDB, postgresql

AI & Productivity Tools :

Cursor , Chat GPT and

Microsoft Copilot

Operating Systems:

Linux (Ubuntu, Debian),

Windows

Scripting Languages:

Bash, Python

Infrastructure as Code:

Terraform

CI/CD Tools:

Azure DevOps, GitLab

Containerization &

Orchestration:

Docker and Kubernetes

Monitoring & Logging:

Prometheus, Loki, promtail,

Grafana, Azure Monitor,

ELK Stack

Web Server & Middleware

Tools:

NGINX, Kubernetes

Ingress , MuleSoft

Other DevOps Tools:

JIRA, Git, Helm Chart

ThoughtRoots India Pvt. Ltd, Gurugram —Software Engineer

December 2018 - July 2021

- Managed and maintained production databases using MySQL.
- Worked with MongoDB for high-volume data storage applications.
- Developed and maintained WordPress-based web platforms.
- Automated repetitive operational tasks through scripting to reduce manual effort.
- Developed multiple WordPress platforms including BengalChess, MPCChess, and AfricaChess.
- Provided backend database support for Nurtr Education Tech platform.
- Built automation scripts to streamline maintenance and deployment processes.

PROJECTS DETAILS

Project A : Wellness and Insurance Projects

End-to-End CI/CD Pipeline for Microservices (Dot net, Node and React) on AKS

- Designed and implemented CI/CD pipeline using Azure Devops.
- Containerized applications using Docker and stored images in Azure Container Registry (ACR).
- Deployed microservices (Dot Net , Node JS and React JS) on Azure Kubernetes Service (AKS).
- Integrated Code quality security scanning in pipeline.
- Managed secrets using Azure Key Vault.
- Configured rolling updates and zero-downtime deployments.

Project B : Monitoring & Logging System for Applications

Centralized Monitoring and Logging for Kubernetes

- Implemented monitoring using Prometheus and Grafana.
- Monitored AKS cluster health and application performance using Azure monitor and application insights.
- Configured alerts for CPU, memory, and pod failures.
- Set up centralized logging using ELK Stack (Elasticsearch, Logstash, Kibana).

EDUCATION

MERI (Affiliated to GGSIPU), New Delhi — Master of Computer Applications (MCA) - 2018 - 75%

Babu Banarasi Das University, Lucknow— Bachelor of Computer Applications (BCA) - 2015 - 70%

UP Board — ABIC, Renukoot— Intermediate (12th) - 2012 - 66.3%

UP Board — ABIC, Renukoot— High School (10th) - 2010 - 66.5%

LANGUAGES

English , Hindi