

MOHIT MAHENDRA SINGH

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DEVOPS & CLOUD ARCHITECT | CI-CD AUTOMATION | AIOPS

PROFILE SUMMARY

DevOps & Cloud Architect with **13+ years of experience** designing, automating, and scaling **cloud-native infrastructure and CI/CD platforms** across **AWS and Microsoft Azure** environments. Proven expertise in **Kubernetes-based microservices deployment, Infrastructure as Code (Terraform), and GitOps-driven delivery pipelines** to enable secure, reliable, and high-velocity software releases.

CORE COMPETENCIES

- CI/CD Pipeline Design
- Infrastructure as Code
- DevOps & Automation
- Kubernetes & Container Orchestration
- Cloud Architecture
- Monitoring & Observability

TECHNICAL SKILLS

Cloud Platforms: Amazon Web Services - AWS, Microsoft Azure

DevOps & CI/CD: GitHub Actions (**EXPERT LEVEL**), Azure DevOps, Jenkins, Gitlab, Cloud Foundry

Containers & Infrastructure: Docker, Kubernetes, Helm, Argo CD, Terraform, Terragrunt, EKS, JFROG

Security Scans: Trufflehog, Sonarqube, CodeQL, Wiz Scan, OPA Scan, Trivy, ClamAV, Blackduck, CheckMarx

Observability & Automation: Prometheus, Grafana, New Relic

Automation Scripting: PowerShell, Python, Bash

AI-Assisted Development & Tools: GitHub Copilot, Claude Code, Amazon Q

PROFESSIONAL EXPERIENCE

TECHNICAL LEAD ► **TECH MAHINDRA LTD., NAGPUR**

Jun 2022 - Present

Project Responsibility: DevOps Consultant & Specialist

- Architected and implemented **enterprise CI/CD pipelines using GitHub Actions and Azure DevOps**, enabling automated build, test, security scanning, and deployment workflows across **AWS and Microsoft Azure environments**.
- Designed and deployed **containerized microservices platforms using Docker and Kubernetes (Amazon EKS)**, implementing **rolling and canary deployment strategies** to improve release reliability and minimize deployment risk.
- Implemented **Infrastructure as Code (Terraform, Helm)** to automate cloud infrastructure provisioning and application deployments, improving **environment consistency, scalability, and deployment speed**.
- Integrated **DevSecOps practices into CI/CD pipelines**, implementing **SAST and DAST security scans** to detect vulnerabilities early in the development lifecycle and enforce secure software delivery.
- Established **observability and monitoring frameworks using Prometheus, OpenTelemetry, and New Relic**, enabling proactive performance monitoring, alerting, and faster incident resolution.
- Developed **automation scripts using Python, Bash, and PowerShell** to streamline operational workflows, improve developer productivity, and reduce manual deployment overhead.
- Implemented **AI-assisted CI/CD workflows using developer productivity tools such as GitHub Copilot and Claude Code**, improving development efficiency and accelerating pipeline automation.
- Led adoption of **DevOps best practices including GitOps workflows, DevSecOps integration, and CI/CD governance**, improving release velocity and platform reliability across multiple enterprise applications.

TECHNICAL LEAD ► **WIPRO LTD., PUNE**

Dec 2021 - May 2022

Project Responsibility: Cloud Engineer, DevOps Team Lead

- Designed and provisioned **AWS cloud infrastructure using CloudFormation (Infrastructure as Code)** across services including **EC2, VPC, RDS, S3, ELB, and ECR** to support scalable application deployments.
- Built and maintained **automated CI/CD pipelines using Jenkins**, enabling continuous build, test, and deployment workflows integrated with pull request validation.
- Deployed and managed containerized applications on **Amazon ECS, Amazon EKS, and AWS LightSail**, improving

deployment efficiency and operational scalability.

- Implemented **monitoring and observability using Prometheus and Grafana**, developing performance dashboards to track application health and infrastructure metrics.

PROJECT MANAGER - DEVOPS ► [PACTERA \(NOW KNOWN AS CENTIFIC\), HYDERABAD](#)

Jul 2018 - Nov 2021

Project Responsibility: Technical Project Manager

- Architected and provisioned **Azure Landing Zone infrastructure using ARM templates**, establishing standardized environments for enterprise cloud deployments.
- Designed and implemented **CI/CD pipelines using Azure DevOps**, enabling automated application build, testing, and deployment workflows.
- Managed **Azure Kubernetes Service (AKS) clusters**, including ingress configuration, resource management, and workload orchestration for microservices-based applications.
- Led DevOps adoption across development teams by implementing **automation, infrastructure as code, and Kubernetes-based deployment practices**.

SENIOR CONSULTANT ► [CAPGEMINI LTD., PUNE/HUNGARY](#)

Jul 2013 - Jun 2018

Project Responsibility: Team Lead of global operations team

- Designed and maintained **CI/CD pipelines using Jenkins**, enabling automated build, integration, and deployment processes for enterprise applications.
- Implemented **AWS-based cloud infrastructure solutions** using services such as **EC2, ELB, RDS, and Route 53** to support scalable and highly available environments.
- Led a **15-member global deployment and operations team**, overseeing release management, incident management, problem management, and change management across multiple regions.
- Supported global production environments through **operational monitoring, troubleshooting, and process improvements** aligned with ITIL practices.

CERTIFICATIONS

[GitHub Copilot certification GH-300](#)
[CLF-C01 Cloud Practitioner by AWS](#)
[\[GH-300\] GITHUB Copilot](#)

[AZ-900 Azure Fundamentals by Microsoft](#)
[ITIL Foundation Certificate: GR750194063MS](#)

KEY ACHEIVEMENT

- Designed and implemented a **GitHub Actions–based CI/CD pipeline** for non-production environments within **three weeks**, enabling automated build, testing, and deployment workflows across development teams.
- Built and led a **high-performing offshore L3 DevOps support team of 12+ engineers**, managing **critical production operations, incident resolution, and release support** for enterprise applications.
- Engineered a **secure data synchronization solution from on-premise NAS to Microsoft Azure Cloud** via a jump server, enabling reliable hybrid cloud data transfer and improved storage accessibility.
- Automated **2000+ test cases using Robot Framework**, enabling scalable test automation across **10+ applications** and improving overall testing efficiency within CI/CD pipelines.

EDUCATION

Bachelors of Engineering – Electronic & Telecomm. Engineering – **70%** ► RTMNU (Nagpur University) 2008-2012
Post Graduate Diploma in IT Management (Part-Time) – **70%** ► Symbiosis Center of Distance Learning 2014–2016

AWARDS & RECOGNITION

- ❖ Digital Warrior Q1 2023: DevSecOps solutions using GitHub Actions.
- ❖ Go the Extra Mile Q3 2021: Built a team of 15 from scratch.
- ❖ Star Performer Q4 2018: Delivered target deployments in UK and Germany.
- ❖ Pat on the Back 2015/2017: Consistently met SLAs on critical assignments.

ONSITE EXPERIENCE

- 2 years in Hungary, Europe for Go-Live Production of UK, Poland & Germany.