# MOHAMMAD HAYAT KHAN

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## Summary

Results-driven SRE/DevOps Engineer and Certified Kubernetes Administrator with 8+ years of experience ensuring system reliability, scalability, and high availability. Expert in orchestrating Kubernetes clusters (IKS, ROKS), automating deployments, and managing production infrastructures. Skilled in CI/CD pipelines using Jenkins, monitoring with Prometheus, Grafana, and Zabbix, and automating with Ansible and Terraform. Proficient in containerization (Docker/Podman), cloud provisioning (AWS), and automation scripting with Python and Shell. Proven ability to minimize downtime, optimize resource utilization, and improve system resilience.

## Work Experience

- DevOps SRE **at IBM India Software Labs** (November 2023 till present)
- Senior Consultant at **Capgemini Technologies Services India Ltd** (April 2022 – October 2023)
- Senior Developer at **HCL Technologies Ltd** (January 2019 – March 2022)
- Software Engineer at **AarKay Infoways** (August 2017- December 2018)
- Senior Engineer at **Bravia Techno Solutions Pvt Ltd** (April 2017 – August 2017
- Site Engineer at **M/S Volt World** (June 2012 – December 2016) (Non-IT Experience)

## Skills

- **CICD & Versioning:** Jenkins, TeamCity, ArgoCD, Bitbucket, GitHub
- **IAC & Configuration Management:** Ansible,Terraform
- **Project Management:** JIRA, Confluence, Zenhub
- **Cloud Computing:** IBM Cloud, Azure, AWS
- **Languages/Scripting:** Python, Shell
- **Containerization & Orchestration:** Docker, Podman, Kubernetes (IKS, ROKS, EKS)
- **Monitoring Tools:** Zabbix, Instana, Grafana, Prometheus, EFK Stack (Elasticsearch, Fluentd, Kibana)
- **Environments:** Linux (Ubuntu, RHEL)
- **Competencies:** Agile/Scrum Development, Continuous Delivery

## Certificates

- **IBM watsonx Essentials**
- **PCEP™ – Certified Entry-Level Python Programmer**
- **Microsoft Certified: Azure Fundamentals**
- **Professional Scrum Master (PSM-I)**
- **AWS Certified Solutions Architect - Associate**
- **Zabbix Certified User**

# Project Summary

**#1 P2PaaS IBM Software Labs**

- Orchestrate and manage Kubernetes clusters within IBM's P2Paas Team, including IBM Kubernetes Service (IKS), Red Hat OpenShift on IBM Cloud (ROKS), and Multi-Cloud Services Platform (MCSP)
- Develop and maintain microservices for platform management and IBM's cloud offerings.
- Design and implement automation solutions using Python, Ansible, IBM Cloud, Instana, and SynLab. Enhance Kubernetes and OpenShift orchestration using SRE expertise.
- Leverage Ansible for automation, Docker/Podman for containerization, and architect cloud solutions. Collaborate in an agile environment, maintaining software installations and updates.
- Establish CI/CD pipelines, integrating tools like Jenkins, Ansible, Instana, and SynLab. Automate performance, availability, and process monitoring, optimizing systems.

**#2 Client: McDonald's (Restaurant Application Development)**

- Utilized Docker, Kubernetes, Helm, and ArgoCD to build containerized applications, developed Helm charts and manifest files for deployment, and integrated ArgoCD, Azkaban, and Nexus pipelines.
- Managed microservices, preventing OOM and CPU throttling through resource analysis. Created virtual labs for developer testing using Terraform, Ansible, and AWS.
- Developed and managed CI/CD pipelines using TeamCity, Bitbucket, SonarQube, and JFrog. Managed version control (Bitbucket, GitHub), handling branching, tagging, and releases.
- Oversaw triage for build and deployment issues, coordinating resolutions across teams.

**#3 Client: Calix**

- Worked with Kubernetes, Docker, Helm, and ArgoCD for containerization and orchestration. Developed Helm charts and manifest files, and automated deployments via ArgoCD, Azkaban, and Nexus.
- Built and maintained automated CI/CD pipelines using Git, Maven, Ansible, Jenkins, and Docker. Monitored and debugged Kubernetes deployments, ensuring smooth operations.
- Managed AWS services like EC2, S3, RDS, Auto Scaling, Load Balancers, and Route53. Integrated monitoring solutions using Zabbix, Prometheus, Grafana, and Splunk.
- Handled database maintenance (Greenplum, Postgres, Cassandra, RDS) and performed release deployment activities.
- Automated Kubernetes pod monitoring with Bash scripts and managed configuration changes via Ansible. Performed bug tracking and project management using internal tools and BitBucket.

**#4 Client: Manchester United**

- Collaborated with product teams to ensure compliance with SRE deployment standards. Resolved incidents within SLAs to minimize downtime and service disruption.
- Provided 3rd level production support, maintaining application stability and addressing infrastructure issues. Developed automation scripts for infrastructure provisioning and deployment.
- Managed AWS services, ensuring scalability and reliability (EC2, S3, RDS, Auto Scaling, Load Balancers, Route53).
- Develop, maintain and deploy helm charts for various microservices.

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# Education

- **Master of Technology** in Computer Science Engineering from **Jamia Hamdard University** in 2015
- **Bachelor of Technology** in Computer Science Engineering from Uttar Pradesh Technical University in 2010
- **Senior Secondary School (+2)** from Aligarh Muslim University in 2006