

# MOHAMMAD ZAYD KHAN

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## Summary

**DevOps/SRE Engineer** with around 4 years of experience in designing, automating, deploying, and optimizing Dev, QA, and Production environments for enterprise clients. Skilled in building CI/CD pipelines using Jenkins, infrastructure automation with Ansible, and monitoring using Prometheus, Grafana, and Zabbix. Proficient in containerization (Docker), cloud services (AWS), and automation using Python and Shell scripting. Knowledgeable in integrating AI-driven solutions to enhance system efficiency and operational performance. Known for reducing downtime, improving scalability, and enhancing infrastructure reliability.

## Work Experience

### Senior Analyst

**Wipro Ltd. — March 2022 – Present**

- Responsible for writing/creating scripts for different automation tasks related to DevOps pipelines.
- Designed and developed automation scripts for DevOps processes using Shell, Python, and Ansible, improving operational efficiency and reducing manual interventions.
- Built and maintained end-to-end CI/CD pipelines using Git, Maven, Jenkins, Ansible, Docker, and Helm to streamline application delivery across Dev, QA, and Production environments.
- Deployed applications on Amazon EKS and EC2 instances using Jenkins, Helm charts, and Ansible; ensured smooth rollouts, upgrades, and patch deployments.
- Created and maintained Helm charts and Kubernetes manifest files; automated application deployments using ArgoCD, Nexus, and Azkaban.
- Managed AWS infrastructure including EC2, S3, RDS, Auto Scaling Groups, Load Balancers, and Route 53; ensured reliability, scalability, and cost optimization.
- Integrated infrastructure and applications with Zabbix, Prometheus, and Grafana for metrics-based monitoring, and implemented log analytics using Splunk for proactive issue resolution.
- Implemented real-time monitoring dashboards in Grafana and automated Kubernetes pod health checks through scripting for improved observability and system uptime.
- Handled database maintenance and release activities for Greenplum, PostgreSQL, Cassandra, and AWS RDS.
- Collaborated with product and SRE teams to enforce deployment standards, ensure compliance, and resolve incidents within SLA during on-call rotations and production support.
- Automated infrastructure provisioning, configuration management, and deployment workflows using Ansible and Bash.
- Provided 3rd-level production support, focusing on application stability, system resilience, and service continuity.

### Project Engineer (Part-Time | Non-IT Role)

**Semak Air Solutions Pvt. Ltd. — February 2021 – January 2022**

- Worked alongside academic commitments, supporting HVAC project planning and execution.
- Coordinated field activities and liaised with technical teams to ensure timely project completion.
- Gained valuable exposure to project management, teamwork, and problem-solving in real-world scenarios.

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## Projects & Innovation

- AI-Based Vulnerability Fixing Agent: Built an LLM-powered solution to scan Docker images for CVEs and auto-generate remediation scripts integrated into CI pipelines.
  - DevOps & AI GitHub Portfolio: Maintains a GitHub repository showcasing automation scripts, Helm charts, and AI-assisted DevOps workflows.  
(<https://github.com/mzk27>)
  - Continuous AI Learning: Exploring AI/LLM-based automation for log analysis, incident summarization, and self-healing infrastructure.
  - Future Certifications: Preparing for AWS Solutions Architect Associate, CKA, and AI/ML certifications.
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## Skills

- **Containerization & Orchestration:** Docker, Kubernetes (EKS)
  - **Configuration Management:** Ansible
  - **Cloud Computing:** AWS, IBM Cloud
  - **CICD & Versioning:** Jenkins, ArgoCD, GitHub
  - **Languages/Scripting:** Python, Shell
  - **Monitoring Tools:** Zabbix, Grafana, Prometheus
  - **Environments:** Linux (Ubuntu, RHEL)
  - **Project Management:** JIRA, Confluence, Zenhub
  - **Competencies:** Agile/Scrum Development, Continuous Delivery
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## Certificates

- **AI Fundamentals with IBM SkillsBuild by Cisco Networking Academy**
  - **AWS Certified Cloud Practitioner**
  - **Zabbix Certified User**
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## Education

- **Bachelor of Engineering** from Jamia Millia Islamia in 2021
- **Diploma in Engineering** from Aligarh Muslim University in 2015