

MUHAMMAD ALI HAIDER

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SUMMARY

Dynamic DevOps Engineer with expertise in Linux (Ubuntu, CentOS), Git, Docker, and Kubernetes. Skilled in developing CI/CD pipelines using GitHub Actions and managing infrastructure with Terraform and Ansible. Proficient in AWS cloud services and monitoring solutions like Prometheus and Grafana. Committed to enhancing collaboration between development and operations teams, driving efficiency, and implementing best practices in automation and software delivery.

WORK EXPERIENCE

DevOps Internship , Developers Hub Corporation

- Assisted in the deployment of multi-container applications on Kubernetes, ensuring seamless integration and scalability.
 - Developed and maintained CI/CD pipelines using GitHub Actions to automate the build, test, and deployment processes.
 - Conducted unit testing to ensure code quality and reliability, contributing to overall project success.
 - Implemented monitoring solutions to track application performance and health, utilizing tools like Prometheus and Grafana for real-time insights.
 - Gained hands-on experience in troubleshooting and optimizing Kubernetes deployments, enhancing system reliability and performance.
 - Collaborated with cross-functional teams to streamline workflows and improve overall efficiency in the development process.
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EDUCATION

Intermediate In Computer Science

DPS & College, Okara

Bachelors in Software Engineering

Information Technology University , Lahore

PROJECTS

3-TIER APPLICATION DEVELOPMENT AND DEPLOYMENT

- Developed a 3-tier application using React.js, Node.js, and MySQL, ensuring a comprehensive and efficient system.
 - Containerized the application with Docker for simplified deployment and management.
 - Deployed the application on Kubernetes, setting up a CI/CD pipeline for automated processes.
 - Integrated Git for version control, ensuring collaboration and code management efficiency.
 - Implemented Prometheus and Grafana for monitoring and visualization, enabling real-time insights into system performance.
 - Utilized auto-scaling on Kubernetes to dynamically manage resources based on workload demands, optimizing application scalability and performance.

PROJECTS

END TO END DEVOPS IMPLEMENTATION

- **Description:** Developed and implemented an automated CI/CD pipeline for an e-commerce application, streamlining the software development lifecycle and enhancing deployment efficiency.
- **Technologies Used:**
 - Version Control: Git, GitHub
 - CI/CD Tools: GitHub Actions
 - Containerization: Docker
 - Orchestration: Kubernetes
 - Infrastructure as Code: Terraform
 - Monitoring: Prometheus, Grafana
 - Cloud Services: AWS
 - Configuration Management: Ansible
 - Scripting: Bash

CI/CD Pipeline Setup: Configured GitHub Actions to automate the build, test, and deployment processes, reducing manual intervention and speeding up release cycles by 50%.

Containerization: Containerized the application using Docker, ensuring consistency across development and production environments.

Kubernetes Deployment: Deployed the application on a Kubernetes cluster, leveraging Helm for managing Kubernetes applications.

Infrastructure Automation: Used Terraform to provision and manage cloud infrastructure on AWS, ensuring reproducibility and scalability.

Monitoring and Alerts: Implemented Prometheus for monitoring application performance and Grafana for visualization, setting up alerts to proactively address issues.

CERTIFICATIONS

PNY, ARFA KAREEM TOWER , LAHORE

Development in Advanced Web Technologies **(DAWT)**

TOOLS & TECHNOLOGIES

- **Operating Systems:** Proficient in Linux distributions (Ubuntu, CentOS)
- **Version Control Systems:** Expertise in Git and GitHub for collaborative development
- **Containerization Technologies:** Skilled in Docker for application packaging and deployment
- **Orchestration Platforms:** Experienced with Kubernetes for managing containerized applications
- **Continuous Integration/Continuous Deployment (CI/CD):** Proficient in GitHub Actions and Jenkins for automated workflows
- **Infrastructure as Code (IaC):** Expertise in Terraform for scalable and reproducible infrastructure management
- **Configuration Management Tools:** Familiar with Ansible for automated configuration and deployment

- **Cloud Computing Services:** Experienced with AWS for cloud-based solutions and deployments
- **Monitoring and Observability Solutions:** Proficient in Prometheus and Grafana for real-time monitoring and performance visualization
- **Security Tools:** Knowledgeable in Snyk for vulnerability scanning and remediation
- **Scripting Languages:** Proficient in Bash scripting for automation tasks
- **Automated Testing Frameworks:** Familiar with various testing frameworks for ensuring code quality