Vijay Kumar Singh

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EDUCATION

National Institute of Technology, Kurukshetra, IN   **CGPA** | 8.739
M.Tech in Renewable Energy Systems   *Aug 2019 - Oct 2021*
Uttarakhand Technical University, Dehradun, IN   **Percentage** | 72.5
B.Tech in Electrical and Electronics Engineering   *Aug 2012 - Aug 2016*

SKILLS

Cloud Computing Platforms: Azure, Google Cloud
Tools Terraform, ARM, Kubernetes, Docker, Linux, Git, Sonarqube, Nexus, Trivy, Jenkins, Azure DevOps, AgroCD, PowerShell, Python

WORK EXPERIENCE

Technical Writer
Hashnode, Remote   *Jan 2023–Present*

- Authored **70+ well-received technical blogs**, resulting in a consistent **20% increase** in community engagement and readership. (Azure, Linux, Networking)
- Created multiple scripts using Bash and Python to automate content workflows, **increasing the efficiency of content updates by 40%.** (Scripts).

IT Support Consultant
Freelance, India   *Aug 2016–July 2019*

- Assisted **100+ services on-site and remote** in troubleshooting software, hardware, and network issues, ensuring seamless and efficient operations.(Utilized tools AnyDesk, TeamViewer and Meet)
- Supported in new technology implementation and trained users in new and existing IT systems.

PROJECTS

YelpCamp-Deploy-Trio || *Azure Kubernetes Service* | *Jenkins* | *Sonarqube* | *Docker* | *Trivy*   Blog GitHub

Deployed a 3-tier application across various environments [Local, Container, Azure] & implemented CI/CD pipelines for automated building, testing, and deploying.

- Utilized a Jenkins pipeline to automate the build, containerization, and deployment processes for deploying the java written application to a AKS cluster, enabling scalable and reliable application hosting.
- Deployed infrastructure through modularized terraform and extensive monitoring.(Terraform, Monitoring)
- Utilized SonarQube for continuous code quality inspection and Trivy for security scanning of the file system and Docker images, ensuring high code quality and security standards. (Sonarqube, Trivy)

AzureDevOps-CI-CD || *Terraform* | *Azure Kubernetes Service* | *ArgoCD* | *Azure Pipelines* | *CI/CD* Blog GitHub

Implemented a robust continuous integration and continuous deployment pipeline using Azure DevOps and automating the deployment to Azure Kubernetes Cluster managed by ArgoCD,.

- Provisioned infrastructure (AKS cluster, self-hosted Linux agent pools) using IaC. (Terraform)
- Streamlined the development workflow, reducing manual intervention and minimizing errors in the build and deployment process. (Automtion, Bash Scripting)
- Utilized Container Insights to collect container logs and alerts, which facilitated the monitoring of events on the cluster. This helped in tracking the health and performance of the applications and infrastructure. (Azure Monitoring)

DevSecOps Pipeline Pro || *Terraform* | *Kubernetes* | *GCP* | *Docker* | *Prometheus* | *Grafana*   Blog GitHub

Designed and implemented a robust CI/CD pipeline to automate the build, test, and deployment processes for a web application. This pipeline ensures high code quality, security, and efficient deployment, improving overall development productivity and reducing time to market.

- Streamlined the development workflow, reducing manual intervention and minimizing errors in the build and deployment process. (Automation)
- Enhanced code quality and security by integrating comprehensive code analysis and vulnerability scanning tools. (Kubeudit, Trivy)
- Facilitated proactive monitoring and issue resolution, contributing to higher application uptime and performance. (Email Alerts)