**N Chaitanya Kumar Reddy**

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**SUMMARY**

* *DevOps Engineer with 2.7+ years of hands-on experience in designing and automating CI/CD pipelines, managing scalable cloud infrastructure on Microsoft Azure, and deploying containerized applications using Docker and Kubernetes.*
* *Proven expertise in infrastructure as code (Terraform, Azure CLI), monitoring (Prometheus, Grafana), and scripting (Python, Bash). Adept at Agile methodologies and cross-functional collaboration to drive continuous delivery and operational excellence.*
* *Experienced in integrating various CI/CD tools such as* ***Jenkins****,* ***GitHub Actions****, and* ***Artifactory*** *to streamline builds and deployments.*
* *Solid coding and scripting skills using SQL, Python, .Net and Bash for automation and development.*
* *Competent in Agile principles such as sprint planning, daily scrums, and release planning.*

**TECHNICAL EXPERTISE**

**Cloud Platforms:** *AWS (EC2, S3, IAM, CloudWatch), Microsoft Azure (AKS, Azure DevOps, Azure Functions, App Services)*

**Infrastructure as Code & Automation:** *Pulumi (Python & TypeScript SDKs), Terraform, Azure CLI, ARM Templates*

**Programming & Scripting**: Python (OOP, virtual environments, pip), Bash

**CI/CD Tools:** *GitHub Actions, Jenkins, GitLab CI, Nexus Artifactory*

**Containers & Orchestration:** *Docker, Kubernetes (AKS), Helm*

**Monitoring & Logging:** *Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)*

**Version Control:** *GitHub, Bitbucket*

**Other Tools & Practices:** *Postman, JIRA, ServiceNow, Agile (Scrum, Sprint Planning)*

**WORK EXPERIENCE**

**LTIMindtree – *Chennai*   
*Software Engineer   
June 2024 – Present***

* *Developed and maintained infrastructure as code using****Pulumi (Python SDK)****and****Terraform****, enabling scalable and reproducible deployments across multiple environments (Dev, QA, Prod).*
* *Automated cloud resource provisioning on****Azure****, including AKS clusters, VMs, storage accounts, and networking components, using Pulumi and Terraform modules.*
* *Managed and supported 14+ enterprise-grade applications, reducing downtime by 30% through proactive monitoring and automation using****Prometheus****,****Grafana****, and****ELK Stack****.*
* *Improved deployment speed by 40% by optimizing CI/CD pipelines with****GitHub Actions****and****Jenkins****, integrating automated testing and environment-specific configurations.*
* *Implemented secure and consistent multi-environment deployments using****Docker****,****Kubernetes (AKS)****, and****Helm****, reducing manual errors by 80%.*
* *Designed branching strategies and managed GitHub repositories to streamline code collaboration and release cycles.*
* *Built custom****Grafana dashboards****and configured****Prometheus alerts****to detect memory leaks in AKS pods, cutting incident response time by 50%.*
* *Managed Python virtual environments and dependencies using****pip****and****venv****, supporting infrastructure scripting and automation tasks.*
* *Contributed to local development setup and optimized backend logic using Python, enhancing performance and user experience.*
* *Migrated legacy reports from SSRS to****Power BI****, improving data visualization and reporting capabilities for business stakeholders.*

**AVIDEX Infotech Private Limited - *Chennai*  
*Associate Software Engineer   
April 2023 – June 2024***

* *As a DevOps Engineer, I specialized in implementing CI/CD pipelines to automate software development, testing, and deployment, ensuring seamless integration and delivery.*
* *I played a crucial role in optimizing workflows, enhancing efficiency, and maintaining high software quality.*

**KEY PROJECTS**

**Cloud Deployment Automation**

* *Used* ***Terraform*** *and* ***Azure CLI*** *to automate the provisioning of VM instances, storage accounts, and networking in Azure.*
* *Designed and integrated* ***containerized microservices*** *with Kubernetes clusters on Azure AKS.*

***CI/CD Pipeline Optimization***

* *Automated testing and deployment workflows for Java-based applications using* ***Jenkins*** *and integrated* ***SonarQube*** *for code quality checks.*
* *Built a GitHub Actions pipeline with environment-specific secrets and rollback logic, reducing failed deployments by 60%*
* *Led efforts to* ***deprecate CAI modules****, replacing them with scalable solutions for improved system performance.*

**EDUCATIONAL QUALIFICATION**

**Bachelor of Engineering** – Computer Science and Engineering.

Lovely Professional University, Punjab

2019 - 2023