DIVYANSHU SINGH

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Summary

DevOps Engineer at NTT DATA with a strong foundation in DevOps principles, CI/CD pipelines, Cloud Computing, and Infrastructure as Code (IaC). Skilled in Python and experienced in streamlining development workflows to improve efficiency and operational performance. Demonstrated success in implementing DevOps best practices to drive process optimization and deliver scalable solutions. Eager to embrace emerging technologies and deliver innovative strategies to support organizational growth.

Skills

- Python | Java | JavaScript | HTML | Shell Scripting | OracleDB | RDBMS | OOP | GitHub Actions | MongoDB | SQL | NoSQL | Git.
- Jenkins | Prometheus | Datadog | Maven | Gradle | Linux | CLI | Bash.
- Azure (VM, AKS, Blob, Functions, SQL DB, VPC, Azure DNS, IAM, Load Balancer) | Cloud Computing | CI/CD | AWS (EC2, S3, EKS, AWS IAM, Amazon VPC) | RESTful Webservices | Unit Testing | Munit Lambda | Datadog | REST APIs | SOAP | XML | JSON | YAML.
- Terraform | Ansible | DevOps | Docker | JIRA | Kubernetes | CI/CD | Jenkins | Monitoring | ArgoCD | GitOps | ELK stack.
- Data Structures & Algorithm | Microservices | Distributed Systems | Salesforce | Backend | Operating Systems | Networking | Agile | Problem Solving | System Design | Software Development | Design Patterns |

Experience

DevOps Engineer   **NTT DATA**   *Noida, India*   **10/2021 - 11/2024**

- Developed and maintained Python scripts to automate workflows and containerized multiple applications using Docker, ensuring seamless deployment on both **AWS and Azure** cloud infrastructures.
- Created end-to-end **Infrastructure-as-Code (IaC)** for multiple environments using **Terraform** on both AWS and Azure, leveraging services like **EC2, S3, RDS, VPC (AWS)** and **Azure Virtual Machines, Blob Storage, SQL Database, Virtual Networks (Azure)**.
- Led the development of several products E2E, from identifying system requirements and partner dependencies to workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- Implemented monitoring and alerting by scripting solutions using Python with the ELK Stack (Elasticsearch, Logstash, Kibana) on AWS, providing real-time insights into application performance and infrastructure health, reducing service downtime by 20%.
- Designed and developed **automation workflows** between cloud services through **CI/CD pipelines** using **GitHub Actions for AWS** and **Azure DevOps for Azure**. Integrated **AWS Secrets Manager and Azure Key Vault** for secure information management and **SonarQube** for continuous code quality inspection.
- Developed **Helm charts** for Kubernetes orchestration using **EKS (AWS) and AKS (Azure)**, automating infrastructure tasks through Terraform.
- Continuous Integration/Deployment Pipeline Integration, pull requests, code reviews, load testing, unit/integration/e2e testing.
- Migrated Repository and CI/CD pipelines from GitHub to Azure DevOps.

Education

Bachelor of Technology   **Dr. APJ AKTU**   *Lucknow, India*   **2022**

- Computer Science and Engineering

Intermediate   **Mercy Memorial School**   *Kanpur, India*   **2017**

- PCM

Certifications

- **DSA WITH PYTHON**: Data Structures and Algorithms (**Coding Ninjas**)
- **JAVA FULLSTACK**: Java (**Great Learning**)
- **ARCHITECTING WITH GOOGLE COMPUTE ENGINE**: GCP (**Coursera**)

Others

- Organized many hackathons in college.
- Have keen Interest in geopolitical events and enjoy playing cricket in my free time.