Ajay Kumar Siliveri - DevOps Engineer

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Profile

Results-driven IT professional with 5+ years of expertise in Cloud and DevOps engineering, focusing on AWS, Azure, and Jenkins. Developed CI/CD pipelines, which enhanced deployment efficiency and reduced time-to-market. Utilized Terraform for resource management in AWS, streamlining operations and improving workflow. Coordinated with Development and R&D teams as an SRE, aligning operational support with development needs. Proficient in monitoring customer experience and KPIs, ensuring high-quality standards while implementing process improvements. Offers strong analytical skills and a collaborative approach, contributing to team success and optimizing project outcomes.

EDUCATION QUALIFICATIONS

2015 – 2019
Hyderabad

Computer Science
Aurora Scientific Technology and Research Academy

- B. Tech in 2019 from Aurora Scientific Technology and Research Academy, Hyderabad.

WORK EXPERIENCE

07/2021 – present
Hyderabad, India

Sr. Software Engineer
Capgemini

- Working with Capgemini as a Sr. Software Engineer from July 2021 to TILL DATE.

PROJECTS PROFILE

11/2023 – 10/2025

DevOps Engineer
T-Mobile

- Developed and maintained T-Mobile's Service Delivery Platform (SDP), which serves as a vital infrastructure layer for delivering telecommunication and digital services efficiently.
- Facilitated seamless interactions between front-end systems, like mobile apps and web portals, and backend systems, enhancing user experiences and operational efficiency.
- Enabled third-party developers to leverage T-Mobile's resources for app development, helping expand the ecosystem of applications available to users.
- Deployed infrastructure on AWS using key services such as EC2, RDS, and VPC, which improved system reliability and scalability.
- Managed Azure DevOps Pipeline with ADO and Terraform, streamlining deployment processes and improving collaboration across teams.
- Maintained Infrastructure as Code (IaC) using Terraform for both Azure and GCP, ensuring consistent and efficient resource management.
- Created and managed AWS IAM roles and Security Groups in both Public and Private Subnets within the VPC, enhancing security and access control.
- Implemented AWS Route 53 for efficient traffic routing between regions, helping improve system responsiveness and user experience.
- Launched and configured AWS and OpenStack instances (SUSE/Ubuntu/CentOS) tailored to specific application requirements, optimizing performance for new development initiatives.
- Designed and implemented AWS Lambda functions to automate script execution in response to events in DynamoDB tables and S3 buckets, which increased operational efficiency.
- Configured AWS VPC services and installed EC2 instances for the new development

PROJECTS PROFILE

team, providing them with the necessary infrastructure to support their projects while using Route 53 for DNS management.

- Developed a comprehensive cloud migration strategy for T-Mobile, which streamlined their operations and reduced costs by 20% over the first year. This involved assessing their existing infrastructure and proposing efficient solutions that aligned with their goals.
- Implemented automation scripts for deployment processes using AWS and Azure DevOps tools, which helped decrease deployment times by 50%. This not only improved team productivity but also minimized the risk of errors during releases.
- Collaborated closely with cross-functional teams to improve system reliability and performance, resulting in a 30% reduction in downtime. This was achieved by setting up monitoring tools and establishing best practices for incident response.
- Conducted training sessions for team members on cloud best practices and DevOps methodologies, helping to elevate overall team skills and awareness. As a result, team members felt more confident in managing cloud resources effectively, fostering a culture of continuous improvement.

09/2021 – 10/2023

Cloud Engineer
JPMC

- Architected, designed, implemented, and supported cloud-based infrastructure solutions, enhancing service reliability and scalability.
- Leveraged AWS services including VPC, EC2, S3, ELB, Auto Scaling Groups (ASG), EBS, RDS, IAM, Docker, and Kubernetes, which streamlined the deployment process significantly.
- Created multiple VPCs and configured public and private subnets based on project requirements, ensuring optimal distribution across various availability zones.
- Managed and scaled applications using Kubernetes clusters for the past three years, which improved application performance and resource management.
- Implemented horizontal pod auto scaling to adjust application replicas based on CPU utilization, helping maintain performance during varying load conditions.
- Designed and deployed applications on Kubernetes with pod anti-affinity rules to distribute replicas across different nodes, increasing availability and reliability through data durability.
- Orchestrated rolling updates of application deployments on Kubernetes, which minimized downtime and allowed for seamless transitions to new versions while closely monitoring for errors and enabling automatic rollbacks when necessary.
- Utilized Kubernetes ConfigMaps and Secrets for application configuration management, ensuring sensitive information was securely separated and allowing for easy adjustments in different environments.
- Established monitoring and health checks for Kubernetes clusters using Prometheus and Grafana, enabling quick identification and resolution of potential issues before they escalated.
- Set up and maintained logging and monitoring subsystems with tools like Elasticsearch, Kibana, Prometheus, and Grafana, which provided valuable insights into system performance and reliability.
- Established a comprehensive infrastructure and service monitoring solution using Prometheus and Grafana, facilitating proactive management of resources and performance.

TECHINICAL SKILLS

– OPERATING SYSTEM

Windows | Ubuntu | Linux

– CLOUD TECHNOLOGIES

Amazon Web Services (AWS) | Azure

TECHINICAL SKILLS

- **BUILD TOOL**
  - Maven
- **CONTINUOUS INTEGRATION**
  - Jenkins
- **SCRIPTING LANGUAGE**
  - Shell
- **CONTAINER TECHNOLOGIES**
  - Docker
  - Kubernetes
- **VERSION CONTROL SYSTEM**
  - Git
  - GitHub
- **OTHERS**
  - Terraform
  - Ansible
- **PROGRAMING LANGUAGES**
  - Python

- CI/CD pipelines
- Terraform (resource management)
- Monitoring customer experience and KPIs
- Strong analytical skills
- Collaboration across teams
- Infrastructure as Code (IaC)
- Cloud migration strategy
- Automation scripts for deployment
- Docker
- Kubernetes clusters
- Horizontal pod auto scaling
- ConfigMaps and Secrets management