Sri Satya Simhadri Thota

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SUMMARY

DevOps Engineer with **5 years of hands-on experience** designing, automating, and optimizing cloud infrastructures across **AWS**, **Azure**, and **GCP**. Proficient in implementing **CI/CD pipelines**, **Infrastructure as Code (Terraform, Ansible)**, and **container orchestration (Docker, Kubernetes)** to streamline software delivery and enhance system reliability. Skilled in developing **secure, compliant, and observable platforms** leveraging **GitOps**, **Prometheus**, **Grafana**, and **ELK Stack** for continuous visibility and governance. Known for bridging development and operations through strong collaboration, agile practices, and automation-driven innovation in **multi-cloud environments**.

SKILLS

- **Programming & Scripting**: Python, Bash, Go
- **Cloud Platforms**: AWS, Microsoft Azure, Google Cloud Platform (GCP)
- **Containerization & Orchestration**: Docker, Kubernetes
- **CI/CD Tools**: Jenkins, GitLab CI, GitHub Actions
- **Version Control Systems**: Git, GitHub, GitLab
- **Infrastructure as Code & Configuration Management**: Terraform, Ansible
- **Monitoring & Logging**: Prometheus, Grafana, ELK Stack, AWS CloudWatch
- **Operating Systems**: Linux (Red Hat, Ubuntu), Windows
- **Databases**: MySQL, PostgreSQL, Redis
- **Networking & Security**: VPN, Vault, IAM, TLS/SSL, Security Groups
- **Collaboration & Agile Tools**: Jira, Confluence
- **Other Skills**: Microservices, Hybrid & Multi-cloud Environments

WORK EXPERIENCE

CVS Health   **October 2025 – Present**
DevOps Engineer

- Spearheading the **Digital Healthcare Continuous Delivery Transformation** to modernize CI/CD pipelines across CVS Health's digital and mobile health platforms, enabling automated, secure, and compliant release workflows in a multi-cloud environment.
- Designed and implemented end-to-end CI/CD pipelines using **GitHub Actions** and **GitLab CI**, integrating security scans (SAST/DAST), policy-as-code validation, and automated deployment approvals to ensure HIPAA compliance.
- Collaborated with development and security teams to embed **infrastructure as code (Terraform)** and **GitOps workflows (Argo CD)** into release processes, reducing deployment errors and manual intervention by over 60%.
- Enhanced observability and reliability through integration of **Prometheus, Grafana, and OpenTelemetry**, enabling real-time visibility into build, deployment, and production performance metrics.
- Optimized release frequency and delivery speed by establishing standardized pipeline templates and implementing automated rollback mechanisms, cutting release cycles from weeks to hours.

Dell Technologies   **June 2019 – December 2023**
DevOps Engineer

- Directed the **Cloud Infrastructure Consolidation** initiative, overseeing the migration of over **300+ legacy servers** into a unified hybrid cloud ecosystem across **Microsoft Azure**, improving scalability and operational efficiency.
- Engineered **Infrastructure as Code (IaC)** solutions with **Terraform**, streamlining provisioning, configuration, and lifecycle management of infrastructure, cutting setup time by **45%**.
- Automated environment deployments using **GitLab CI/CD pipelines**, accelerating release cycles and enhancing reliability across development and production environments.
- Modernized application deployment by containerizing monolithic workloads with **Docker**, improving portability, maintainability, and environment consistency.
- Established a centralized **monitoring and logging architecture** leveraging **Prometheus**, **Grafana**, and the **ELK Stack** to deliver real-time infrastructure visibility and proactive alerting.
- Integrated **AWS CloudWatch** and **Azure Monitor** dashboards to unify multi-cloud observability and optimize incident response processes.
- Strengthened cloud security by designing **IAM role structures**, **TLS/SSL encryption policies**, and **network security group rules** aligned with enterprise compliance requirements.
- Optimized cloud resource allocation through automated scaling and cost-monitoring scripts, achieving a 25% reduction in monthly cloud expenditures.
- Documented standard operating procedures, architecture diagrams, and disaster recovery runbooks to ensure consistent operations and faster onboarding across DevOps teams.

PROJECTS

1. Cloud-Based Data Analytics Pipeline

- Designed and implemented a **data analytics pipeline** using **AWS S3**, enabling automated extraction, transformation, and visualization of structured datasets.
- Utilized **Python (Pandas, Boto3)** and **Tableau** for data cleaning and reporting to enhance data accuracy and streamline analysis workflows.
- Demonstrated proficiency in **cloud data architecture** and **ETL automation**, showcasing the ability to build scalable, serverless analytics solutions in an academic environment.

2. Automated CI Pipeline for Web Application Testing

- Built an **automated testing and deployment pipeline** for a sample web application using **Selenium**, and **Docker**, simulating real-world continuous integration workflows.
- Integrated static code analysis tools and containerized environments to ensure reliable builds and consistent application performance during code merges.
- Gained hands-on experience in **automation scripting, software testing, and CI/CD orchestration**, reinforcing foundational DevOps and quality assurance principles through academic experimentation.

EDUCATION

Master in Information Technology Management   **Jan 2024 – Aug 2025**

St. Francis College, Brooklyn, NY | GPA: 3.8