PRAGATI K YADAHALLI

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TECHNICAL SKILLS

- **Cloud Platforms**: Amazon Web Services (EC2, S3, RDS, Lambda, VPC, IAM, Route53, CloudFormation, CloudWatch, ECS, Auto Scaling, Elastic Load Balancer, CloudFront, AWS Glue, EMR), Azure (App Services, Logic Apps, Monitor, Blob)
- **Container Technologies:** Docker, Kubernetes
- **Monitoring & Logging**: AWS CloudWatch, Prometheus, Grafana, New Relic, Azure Monitor
- **Infrastructure as Code:** Terraform, Ansible AWX
- **CI/CD & Version Control**: Jenkins, GitHub Actions
- **Automation & Scripting**: Python, Groovy, YAML, Bash, Power Automation
- **Version Control & Collaboration**: Git, GitHub, Agile methodologies
- **Web Servers & Databases**: NGINX, Apache Tomcat, MySQL, RDS, Snowflake

PROFESSIONAL EXPERIENCE

Associate Cloud Operations Engineer 1   Feb 2025 – Present
Powerschool - Bangalore, India

- Architected and deployed highly available cloud infrastructure using AWS VPC, S3, EFS, EC2, RDS with Read Replicas, and Application Load Balancers, achieving 99.9% uptime for production workloads
- Reduced deployment time by 95% (hours to minutes) by building automated CI/CD pipelines with AWS CodePipeline, CodeCommit, and CodeBuild, enabling rapid iteration and faster time-to-market
- Optimized Kubernetes cluster performance using Grafana, resulting in 25% improved resource utilization
- Reduced latency by 20% through advanced NGINX load balancer configurations and SSL certificate automation
- Implemented automated database refresh workflows for Dev/QA environments, reducing deployment time by 40%.
- Implemented centralized logging solution using Ansible AWX, covering 100+ virtual machines
- Created RPA solutions using Power Automate, reducing manual operations by 40%
- Engineered ETL pipelines using Qlik and HVR, optimizing data replication to Snowflake with 99.9% accuracy

AWS DevOps Engineer Intern   Aug 2024 – Jan 2025
MicroDegree - Bangalore, India

- Designed and implemented three-tier web application architecture with separate public/private subnets across availability zones, implementing least-privilege security groups and NACLs for enhanced security posture
- Optimized content delivery and reduced latency by 40% through CloudFront CDN integration with Route53 DNS management for global user base
- Containerized applications using Docker and orchestrated deployments with Kubernetes and Amazon ECS, improving resource utilization and scalability
- Implemented infrastructure as code using Terraform and CloudFormation templates, enabling reproducible deployments and version-controlled infrastructure changes
- Established comprehensive monitoring and alerting system using CloudWatch, Prometheus, and Grafana dashboards

Data Science & Machine Learning Intern   Aug 2023 – Oct 2023
Abeyaantrix Softlabs - Davangere, India

- Developed end-to-end loan prediction system using Python, scikit-learn, and pandas for data preprocessing, feature engineering, and model development with 85%+ accuracy
- Applied machine learning algorithms to financial datasets, delivering actionable insights for credit risk assessment
- This internship helped me enhance my skills in applying machine learning algorithms to real-world problems, particularly in financial data prediction and analysis.

KEY PROJECTS

Production-Grade Cloud Infrastructure App Deployment | *AWS, Terraform, Docker, Kubernetes*

- Engineered fault-tolerant infrastructure using VPC with multi-AZ deployment, NAT Gateways, and Internet Gateways supporting 10,000+ concurrent users
- Implemented auto-scaling policies and load balancing across EC2 instances, dynamically adjusting capacity based on traffic patterns
- Configured RDS MySQL with automated backups and read replicas for database high availability and disaster recovery

Three Tier Web Application | *Jenkins, VPC, NAT, EC2, ELB,*

- Built end-to-end CI/CD pipeline integrating automated testing, security scanning, and zero-downtime blue-green deployments
- Reduced code integration errors by 80% through automated testing frameworks and quality gates in the deployment pipeline
- Established a VPC with 3 public and 3 private subnets in one region, configured Internet and NAT Gateways for external connectivity. And implemented separate Route Tables and Security Groups for public and private access deployed EC2 instances and set up a Load Balancer management

EDUCATION

Bachelor of Engineering in Computer Science   2020 – 2024
Jain Institute of Technology (VTU)   *CGPA: 8.46/10*

Pre-University Education (PCMB)   2018 – 2020
Sree Basaveshwara PU College   *Percent: 80%*

CERTIFICATIONS

AWS Solutions Architect (MicroDegree) | DevOps Engineer (MicroDegree) | AWS Cloud Practitioner (Coursera) | SQL Certification (HackerRank) | Python Programming (Great Learning)