Dhananjay Patel

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EXPERIENCE

DevOps Engineer — Apr 2022 – Apr 2023
Serving Drives — *Rajasthan, India*

- **AWS DevOps Implementation**: Managed AWS services including S3, Lambda, API Gateway, and Application Load Balancer (ALB) to streamline cloud infrastructure and optimize performance.
- **Containerization and Orchestration**: Deployed and managed Docker containers and Kubernetes clusters (EKS - AWS) for scalable and fault-tolerant microservices architecture.
- **CI/CD Automation**: Automated continuous integration and deployment pipelines using Jenkins, ensuring rapid delivery of code updates and infrastructure provisioning with Terraform.
- **Linux and Bash Scripting**: Developed and maintained automation scripts using Linux Bash for system administration, deployment, and monitoring tasks.
- **Python Scripting**: Utilized Python for custom automation scripts and integrations within DevOps workflows, improving operational efficiency and infrastructure management.

Cloud Internship — Jan 2022 – Apr 2022
BrainyBeam Technologies Pvt. Ltd. — *Gujarat, India*

- **Cloud Infrastructure Management**: Assisted in managing cloud infrastructure on AWS, gaining hands-on experience with core services such as EC2, S3, and RDS.
- **Automation and Scripting**: Supported automation of cloud tasks using Python and Bash scripting to improve operational efficiency.
- **Monitoring and Troubleshooting**: Collaborated in monitoring cloud environments, identifying issues, and troubleshooting system errors to ensure optimal performance.
- **Version Control with Git**: Utilized Git and GitHub for version control, contributing to the development and deployment of cloud-based applications.

PROJECTS

WhizStream (Streaming Plateform
EC2, API Gateway, ELB, S3, SQS, Lambda, Docker, Github Actions — Github

- Developed a video streaming platform enabling user registration/login with email, password, and Google OAuth.
- Implemented video upload functionality by generating S3 pre-signed URLs using AWS Lambda, allowing direct frontend uploads.
- Designed video processing architecture using EC2 auto-scaling based on SQS messages, converting uploaded videos into multiple resolutions (240p, 360p, 720p, 1080p).
- Built a secure three-tier architecture with separate VPCs for web, application, and database layers, ensuring scalability and security using AWS services (S3, EC2, Auto Scaling, SQS, RDS).
- Automated deployment pipelines using GitHub Actions to ensure continuous integration and deployment of new features.

Automated EKS Deployment with Terraform and Jenkins Pipelines
AWS EKS, Terraform, Jenkins, Kubernetes, CICD, Infrastructure as Code (IaC) — Github

- Designed and implemented a fully automated infrastructure setup using Terraform to provision VPCs, subnets, and EC2 instances for Jenkins.
- Installed and configured Jenkins on EC2, integrating with Terraform and eksctl to automate AWS EKS cluster creation.
- Created a Jenkins pipeline to deploy and manage an EKS cluster with public/private subnets, NAT gateway, and route tables.
- Developed an additional Jenkins pipeline for seamless deployment of a Kubernetes application (simple NGINX image) on the EKS cluster.

TECHNICAL SKILLS

Cloud Engineering/DevOps: Linux, AWS (Amazon Web Services), Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Grafana, Prometheus

Languages: Python, JavaScript, NodeJS, SQL

Databases: MySQL, PostgreSQL, MongoDB

EDUCATION

Conestoga College — January 2024 – August 2024
Virtualization and Cloud Computing, Post Graduate — *Waterloo, ON*

Algoma University — Jan 2023 – Aug 2023
Information and Technology, Post Graduate — *Brampton, ON*

Gujarat Technological University — August 2018 – May 2022
Bachelor of Engineering in Computer Engineering — *Gujarat, India*