

Yash Shah

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EDUCATION

Ganpat University

Bachelor of Technology in Computer Science & Engineering (Cloud Based Applications), CGPA: 8.99/10

Gujarat, India

Graduated: May 2023

TECHNICAL SKILLS

Languages & Tools: Python, JavaScript, NodeJS, Terraform, AWS, Docker, Kubernetes, Jenkins, GitHub, MySQL, MongoDB

Technologies: CI/CD, DevOps, Web Automation, Cloud Deployment, Microservices, Infrastructure as Code (IaC)

Certifications: HashiCorp Certified: Terraform Associate (003), Docker Essentials: A Developer Introduction - IBM, AWS Academy Cloud Foundations - AWS Academy, IT Academy: Network Virtualization Concepts - Coursera, Introduction to Relational Databases in SQL - DataCamp, CCNA Routing and Switching: Introduction to Networks - Cisco

WORK EXPERIENCE

Squadron Technology Private Limited

DevOps and Cloud Data Engineer (1.6 years)

Jan 2023 – Jul 2024

Gujarat, India

- I worked as a full-time DevOps and Cloud Data Engineer, building on my previous 5-month internship experience, with a total of 1.6 years of experience..
- Collaborate with the DevOps team to create and manage CI/CD pipelines, ensuring efficient software delivery.
- Lead containerization efforts using Docker and Kubernetes, optimizing application deployment and scalability.

Ownux Infosec

Software Development Intern

may 2021 – june 2021

Gujarat, India

- Ownux Infosec is a company providing various types of security, such as Web Application Security Testing and Mobile Application Penetration Testing.

Karma Foundation

Research Intern

Jun 2019 – Aug 2019

Gujarat, India

- Worked as a research intern at Karma Foundation, contributing to studies and reports on cloud infrastructure and DevOps practices.

PROJECTS

Custom ETL Pipeline Development and Deployment | *Python, Dask, Azure Blob Storage, TigerGraph, Pydantic, Terraform Cloud*

- Developed and deployed a custom ETL pipeline with Python, replacing the GATHr tool and optimizing with Dask.
- Utilized Azure Blob Storage and TigerGraph for data management, deployed on Linux.
- Automated data validation and triggering with Pydantic and Terraform Cloud, enhancing efficiency and reliability.

Scrapper Optimization and Containerization Project | *Terraform, AWS, GitHub Actions*

- Enhanced data retrieval efficiency for Elasticsearch while transitioning to cloud deployment on AWS, achieving cost-effective scalability.
- Implemented automated deployment workflows with GitHub Actions and infrastructure provisioning using Terraform.

Cloud Traffic Monitor | *AWS API Gateway, AWS Cognito, CI/CD*

- Developed an API for traffic monitoring, with secure authentication using AWS Cognito and efficient deployment using serverless architecture.

GitLab CI/CD Pipeline | *GitLab, AWS Step Functions, ECS, Route 53*

- Modified a SaaS application for faster execution using AWS Step Functions, and built a CI/CD pipeline using GitLab and serverless architecture.
- Hosted the application on an AWS ECS cluster and mapped the DNS with the load balancer URL using Route 53.

EKS 2048 Game Deployment | *Kubernetes, AWS EKS, Helm*

- Deployed the classic 2048 game on an Amazon EKS cluster with Fargate, demonstrating cloud orchestration and Kubernetes skills.
- Managed cluster setup, security enhancement, and Helm deployment.

MySQL HA Cluster | *MySQL, ProxySQL, Terraform*

- Engineered a high availability MySQL cluster with replication and load balancing using ProxySQL, ensuring optimized traffic distribution.

Kubernetes Deployment | *Kubernetes, AWS EC2, Terraform*

- Deployed a NodeJS and MongoDB application using Kubernetes on AWS EC2 instances. Automated the deployment using Terraform and shell scripts.

Setting Up Prometheus and Grafana for Kubernetes Monitoring | *Prometheus, Grafana, Kubernetes, Minikube*

- Implemented Prometheus and Grafana within a local Minikube Kubernetes simulation to monitor applications and infrastructure, providing insights into performance and system health.

Edustaff E-learning Platform | *NodeJS, AWS RDS, EC2, Terraform*

- Developed an e-learning platform for support staff, enabling role-based training, video playback, progress tracking, and certification issuance. Hosted the application on AWS Cloud using RDS and EC2.