Bhoomi Gupta

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Summary

Motivated Computer Science graduate with a strong interest in DevOps practices. Proficient in cloud technologies and automation, ready to begin a career in automating and improving development workflows.

Skills

AWS Cloud: EC2, VPC, S3, IAM, Lambda, RDS, SSM, Secret Manager, DynamoDB, CloudWatch, SNS, AWS CLI

Technologies & Tools: Terraform, Jenkins(CI/CD Tool), Docker, Python, Git, Linux, React, HTML, VS Code, Notion.

Job

Intern Rishvi Technologies   Sept 2024 – Dec 2024

Education

B.Tech ITM University, Computer Science   Sept 2020 – May 2024

Projects

Serverless API Deployment with AWS Lambda & CloudFront Using Terraform

- **Description:** Built a serverless API using AWS Lambda and exposed it securely via CloudFront and custom domain.
- **AWS Services Used:** Lambda, CloudFront, ACM, IAM
- **Key Achievements:** Integrated Lambda Function URL with CloudFront, used Terraform for IAC, configured SSL and custom header policies.

Auto-Scaling Web Application

- **Description:** Deployed a scalable web application to handle high traffic using auto-scaling and load balancing.
- **AWS Services Used:** EC2, Auto Scaling, Elastic Load Balancer (ELB), CloudWatch
- **Key Achievements:** Automated EC2 scaling, ensured high availability with Elastic Load Balancer, and monitored performance with CloudWatch alerts.

Scalable Image Resizer

- **Description:** Developed an automated image resizing system using a serverless architecture.
- **AWS Services Used:** S3, Lambda, CloudWatch
- **Key Achievements:** Automated image resizing using Lambda, integrated S3 storage, and monitored system performance with CloudWatch.

Monitoring EC2 Instances with Custom Metrics in CloudWatch

- **Description:** Monitored EC2 system metrics using CloudWatch agent and custom dashboards.
- **AWS Services Used:** EC2, CloudWatch, IAM
- **Key Achievements:** Collected memory and disk metrics, pushed data using CloudWatch agent, and configured alarms and insights.

Jenkins Setup on EC2 with Reverse Proxy (Nginx)

- **Description:** Installed Jenkins on EC2 and configured Nginx as a reverse proxy for secure CI/CD access.
- **AWS Services Used:** EC2, IAM, Security Groups
- **Key Achievements:** Automated Jenkins deployment, routed traffic using Nginx, and enabled secure web access.

Build a Virtual Private Cloud (VPC)

- **Description:** Created a custom Virtual Private Cloud (VPC) with public and private subnets to host secure applications.
- **AWS Services Used:** VPC, Subnets, Route Tables, Internet Gateway, NAT
- **Key Achievements:** Designed secure subnets, configured routing and security groups, and hosted secure applications in the VPC.