Amogh Gupta

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SUMMARY

DevOps Engineer with expertise in AWS, Kubernetes, CI/CD, and automation, dedicated to optimizing workflows and enhancing system performance. AWS Certified Solutions Architect Associate with experience in deploying and managing scalable, resilient applications.

EDUCATION

CGPA 8.2, Bachelor of Engineering, Computer Science, ABES Engineering College, Ghaziabad
10+2, 75% KVOEF, Kanpur Uttar Pradesh
10, 81.7% KVOEF, Kanpur Uttar Pradesh

EXPERIENCE

Contevolve – Software Developer   **04/2024 - present**

- **Monitoring System:** This project contains deployment configurations for Opensearch, Opentelemetry, Jaeger, and Telegraf on Amazon EKS, collecting and forwarding telemetry data (metrics/logs/traces) from applications and microservices to Opensearch for visualization in Opensearch Dashboards.
- **Disaster Recovery:** Designed and implemented disaster recovery strategies for AWS resources, including RDS, Aurora, FSx OpenZFS, S3, EC2, Keyspaces, and OpenSearch. Integrated AWS Backup service for cross-region and cross-account backups using Terraform, enabling automation to minimize recovery time.
- **Pre-Signed URL generation:** The solution generates presigned URLs, allowing users to securely download or stream MP3 files without making the S3 bucket public. URLs are created on demand through a serverless Lambda function and exposed via API Gateway.

Contevolve – Software Intern   **04/2024 – 06/2024**

- **Monitoring ThroughELK Stack:** Implemented a centralized log and metrics management solution using the ELK Stack (Elasticsearch, Logstash, Kibana), Packetbeat, and Metricbeat to enhance observability and streamline troubleshooting across AWS and Kubernetes environments. Optimized log retention, indexing, and security, while using Helm for scalable and efficient deployment.

GEDU Services – Software Intern   **03/2024 – 04/2024**

- Worked on developing and maintaining web applications using React, Next.js, and JavaScript, focusing on building responsive, user-friendly interfaces and optimizing performance. Collaborated with cross-functional teams to ensure seamless integration with backend services and enhanced overall user experience.

NEC Coperation – Software Trainee   **10/2023 – 01/2024**

- **Alliance-for-Excellence-in-Consultancy:** This project uses Java and Spring Boot for CRUD operations, an SQL database for data storage, and includes authentication features, resulting in a fully functional website.

PERSONAL PROJECTS

- **Terraform S3 website hosting:** This project uses Terraform to automate the creation of an AWS S3 bucket for static website hosting, showcasing Infrastructure as Code (laC).
- **aws-two-tier-architecture-with-terraform:** This Terraform project sets up a two-tier architecture on AWS with a public EC2 web server and a private RDS database, demonstrating VPC, subnets, and security configurations.
- **NFT mArkeyplace:** Developed a decentralized NFT marketplace leveraging blockchain technology to enable the creation, buying, and selling of digital assets representing pets. The platform empowers pet owners and enthusiasts to mint unique pet-themed NFTs, offering a secure, transparent, and community-driven environment. Utilized smart contracts for seamless transactions and ownership verification, ensuring transparency and trust within the ecosystem.

TECHNICAL SKILLS

Languages: Profficient → Java, C++ Familiar with → Python
Cloud Platforms: AWS
Automation: Terraform
Monitoring & Logging: ELK Stack (Elasticsearch, Logstash, Kibana), Metricbeat, Packetbeat, Opensearch, Opetelemetry, Telegraf
Other: Problem Solving, Data Structure and Algorithms

ACHIEVEMENTS

- AWS Certified Solution Architect Associate.
- Automated workflow with Terraform, reducing time by 30% and eliminating manual intervention.
- Built secure disaster recovery infrastructure for critical AWS resources, saving 25% of recovery time.
- Solved 417 problems on LeetCode and 300+ problems on HackerRank, enhancing algorithm and data structure skills.