HUSANPREET SINGH

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SUMMARY

- DevOps Engineer with expertise in infrastructure automation, CI/CD implementation, and AWS services.
- Proficient in Jenkins, Kubernetes, Terraform, Docker, and Python scripting.
- Skilled in optimizing software development processes for enhanced efficiency within Linux environments.
- Experienced in deploying scalable applications and designing serverless architectures on AWS.
- Seeking opportunities to apply DevOps methodologies to drive organizational success.

EDUCATION

Guru Nanak Dev University Amritsar, Punjab, India , **2020-2023**
Bachelor of Computer Application - 8.63/10 (Dean's Honour List)

Sant Giani Gurbachan Singh ji Khalsa Academy , Amritsar , **2018 – 2019**
Senior Secondary School

SKILLS

• Kubernetes • Jenkins • Helm • Terraform • Docker • Grafana • Github • Python • Linux • Fargate
• AWS Serverless • AWS CodePipeline • AWS CodeBuild • AWS (EC2, S3, Lambda, DynamoDB, etc.)

PROFESSIONAL EXPERIENCE

DEVOPS ENGINEER ASSOCIATE | Internship

The Entrepreneurship Network
1 Nov 2021 - 1 Feb 2022 | 3 Months

Project Summary: As a key member of the Angular Development Team, I spearheaded transformative initiatives aimed at optimizing development and deployment processes. This involved mastering AWS for hosting applications, refining Git workflows, and implementing robust automation practices.

Key Contributions:

• Implemented robust CI/CD pipelines using Jenkins, resulting in a 60% reduction in deployment times and significantly enhanced software release reliability.
• Leveraged Ansible for infrastructure provisioning, ensuring consistent deployment across environments and minimizing configuration errors.
• Employed Docker for containerization, simplifying dependency management and promoting uniformity between development and production setups.
• Orchestrated Docker containers using Kubernetes, enabling efficient scaling, load balancing, and bolstering application availability.

Achievements:

Reduced deployment times by 60% through CI/CD automation.
Ensured standardized deployments, mitigating production issues associated with configuration discrepancies.
Improved application availability by effectively scaling resources using Kubernetes orchestration.

PROJECTS

Project: Two-tier Application Deployment for Scalability and Fault Tolerance

- Orchestrated Dockerization process for application encapsulation, ensuring compatibility and version control.
- Automated setup of resilient Kubernetes cluster using Kubeadm and transitioned seamlessly to AWS EKS with eksctl.
- Utilized Helm to package Kubernetes Manifest files, optimizing for high availability and Load Balancer configurations.
- Established CI/CD pipeline with Jenkins and GitHub webhooks for code fetching, Docker container building, and deployment on AWS EKS.

Results:

- Accommodated 10,000 concurrent users seamlessly, enhancing scalability.
- Reduced downtime by 60% with AWS Managed EKS, ensuring robustness in deployment architecture.

Project: Serverless Deployment on AWS with Fargate and RDS

- Led end-to-end implementation of serverless architecture, strategizing and architecting solution on AWS with Fargate and RDS.
- Implemented Fargate containerization for scalable deployment, ensuring efficiency.
- Established and configured PostgreSQL database on RDS for data integrity and high availability.

Results:

- Deployed scalable and efficient serverless architecture on AWS with Fargate and RDS.
- Established robust PostgreSQL database instance on RDS, ensuring data integrity and security.

Project: Docker Infrastructure on AWS using Terraform

- Utilized Terraform to automate creation of Virtual Private Clouds (VPCs) on AWS, ensuring scalability.
- Defined network architecture including subnets, route tables, and security groups for modularity.
- Orchestrated network configurations using Terraform's declarative syntax for streamlined provisioning.

Results:

- Enabled automated setup and maintenance of VPC infrastructure on AWS using Terraform, ensuring modularity and scalability.