Sagar Giri

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Objective

Highly motivated DevOps Engineer with a post-graduate certificate in DevOps for Cloud Computing and hands-on experience in CI/CD automation, cloud infrastructure, containerization, and orchestration. Eager to contribute to efficient and scalable cloud environments by leveraging a deep understanding of cloud-native technologies and IaC practices.

Education

Lambton College, Toronto ON, PG in DevOps for Cloud Computing Jan 2024 – Sept 2025

- GPA: **3.0**/4.0
- Coursework: Cloud Infrastructure, DevOps Automation, CI/CD Pipelines, AWS/Azure, Containerization with Docker & Kubernetes

Skills

- **DevOps Tools**: Jenkins, GitHub Action, Docker, Kubernetes, Ansible, Terraform, Vault .
- **Cloud Platforms**: AWS (EC2, S3, VPC, RDS, CloudFormation, IAM, Lambda), Azure, Google Cloud Platform.
- **CI/CD**: Jenkins, GitHub Action.
- **Scripting & Automation**: Bash, Python
- **Version Control**: Git, GitHub
- **Monitoring & Logging**: Prometheus, Grafana, ELK Stack, CloudWatch
- **Containerization**: Docker, Kubernetes, Helm, Docker Swarm
- **Infrastructure as Code (IaC)**: Terraform
- **Security & Secrets Management**: HashiCorp Vault, AWS Secrets Manager
- **Operating Systems**: Linux (Ubuntu, CentOS), Windows Server
- **Database**: MySQL, PostgreSQL, MongoDB
- **Soft Skills**: Strong attention to detail, problem-solving, team collaboration, quick learner

Projects

Multi-Cloud Infrastructure Automation with Terraform and Ansible.
Overview: Automated the provisioning and configuration of a multi-cloud infrastructure on **AWS** and **Azure** using **Terraform** and **Ansible**.

- Designed **Terraform modules** for reusable cloud resource deployment across AWS and Azure.
- Configured Ansible playbooks for automatic configuration management and application deployment.
- Managed **multi-cloud networking** and secure access using **VPC peering** and **VPN tunnels**.
- Enabled **cross-cloud failover** and **auto-scaling**, reducing operational complexity by **30%**.
- Tools Used: **Terraform, Ansible**

Kubernetes Cluster with Automated CI/CD Pipeline
Overview: Built and managed a **Kubernetes** cluster on **AWS (EKS)** with a fully automated CI/CD pipeline using **Jenkins** and **Helm** for deploying a microservices-based application.

- Integrated **Jenkins Pipelines** with **GitHub** for continuous integration and automated testing of microservices.
- Used **Helm** for deploying and managing Kubernetes applications, enabling efficient versioning and rollbacks.
- Deployed an **Nginx ingress controller** for routing external traffic to internal microservices.
- Achieved a **40%** improvement in deployment speed and enhanced application reliability through automated failover.

- Tools Used: **Kubernetes (EKS), Jenkins, Helm, Prometheus, Grafana**

Continuous Security with Jenkins, Docker, and SonarQube
Overview**:** Implemented a security-focused CI/CD pipeline integrating **SonarQube** for code quality analysis, **Docker** for containerization, and **Jenkins** for automated builds.

- Integrated **SonarQube** into **Jenkins** pipelines to perform static code analysis on all feature branches, ensuring secure and high-quality code.
- Built **Docker images** for microservices, scanned for vulnerabilities using **Trivy** and pushed to a private **Docker registry**
- Implemented automated notifications to **Slack** for build status and **SonarQube** report updates
- Reduced security vulnerabilities by **25%** through automated code quality checks.
- Tools Used: **SonarQube, Trivy, Slack, Jenkins**

Extra Curricular Activity

Verizon Cloud Platform Job Simulation on Forage June 2024

- Completed a job simulation involving building a hypothetical new VPN product for Verizon's Cloud Computing team.
- Used command line Python to test whether Verizon's VPN met the cloud-native traits, i.e. redundancy, resiliency and least-privilege.
- Researched approaches to achieve application security and communicated insights in a PowerPoint Presentation.

Certifications

Verizon Cloud Platform Job Simulation on Forage

- Introduction to Programming using Python
- Networking Fundamentals
- Microsoft Azure Fundamentals (AZ-900)