

# Sagar Giri

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## Objective

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Highly motivated and solutions-driven DevOps professional pursuing advanced expertise in cloud computing and automation. Skilled in CI/CD pipelines, cloud infrastructure, and Kubernetes, with a proven ability to streamline workflows and improve system reliability. Passionate about leveraging cloud-native technologies and fostering DevOps culture to deliver scalable, efficient, and resilient solutions. .

## Education

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- Lambton College**, Toronto ON, PG in DevOps for Cloud Computing Jan 2024 – Sept 2025
- Coursework: Cloud Infrastructure, DevOps Automation, CI/CD Pipelines, AWS/Azure, Containerization with Docker & Kubernetes
- REVA University**, Bangalore, India, Bsc in Cloud Computing and Big Data Aug 2019 – Sept 2022
- Coursework: OS Foundation, Networking, Data Structure, Python, C, Java, AWS/Azure, Ansible, Hadoop

## Skills

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- **DevOps/ CI/CD Tools:** Jenkins, GitHub Action, Docker, Kubernetes, Ansible, Terraform, Vault .
- **Cloud Platforms:** AWS (EC2, S3, VPC, RDS, CloudFormation, IAM, Lambda), Azure, Google Cloud Platform.
- **Scripting & Automation:** Bash, Python
- **Monitoring & Logging:** Prometheus, Grafana
- **Version Control:** Git, GitHub
- **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

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### Microservices-Based Web Application with Python and Node.js

Overview: Built a microservices-based web app with a Python frontend, Node.js backend, Dockerized deployment on Kubernetes, and automated CI/CD pipelines.

- Designed a microservices architecture with a **Python**-based frontend (**Flask**) and **Node.js** backend (**Express.js**).
- Implemented RESTful APIs for communication between services and **MongoDB** for data persistence.
- Deployed each microservice as a **Docker** container, orchestrated using **Kubernetes** for scalability and resilience.
- Automated **CI/CD** pipelines with **Jenkins**, enabling seamless deployment to an **AWS**-based infrastructure.
- Monitored service health and performance using **Prometheus** and **Grafana**, achieving a 20% reduction in downtime.
- Tools Used: **Node.js**, **Python**, **Prometheus**, **Grafana**

### 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%**.

## 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.
- Skilled in managing **cloud infrastructure** and optimizing CI/CD pipelines, improving deployment efficiency by **40%** in previous projects.
- Achieved a **40%** improvement in deployment speed and enhanced application reliability through automated failover.
- Tools Used: **Kubernetes (EKS)**, **Jenkins**, **GitHub**, **Helm**

## Professional Experience

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Grocery Associate, Walmart Canada

Sept 2024 - Present

- **Workflow Optimization:** Identified bottlenecks in the item restocking process and implemented a strategy to group items by aisle, reducing stocking time by 30%.
- **Inventory Accuracy:** Conducted weekly surveys of aisles to identify and replace missing or damaged item labels, ensuring proper inventory tracking and availability.
- **Continuous Improvement:** Developed a protocol for replacing damaged labels during inventory scanning, maintaining accurate data and improving item visibility on the sales floor.
- **Impact:** Enhanced customer satisfaction and increased revenue by ensuring items were consistently available for purchase, demonstrating a strong ability to optimize operations.

## Extra Curricular Activity

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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

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- Microsoft Azure Fundamentals (AZ-900)
- Introduction to Programming using Python
- Networking Fundamentals
- Verizon Cloud Platform Job Simulation on Forage