# Sathwik Rapala

# DevOps Engineer — Cloud Infrastructure Specialist — Automation Expert

Toronto, ON

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# Professional Summary

**DevOps Engineer** with experience automating CI / CD pipelines, managing cloud infrastructure, and implementing scalable solutions. Proficient in AWS, Kubernetes, and Terraform, with hands-on expertise in containerization and Infrastructure as Code. Recently pursued a Master's in Cloud Development and Operations at Conestoga College, applying advanced DevOps methodologies to optimize system performance and reliability. Recognized for reducing deployment times, improving resource utilization, and ensure system uptime. Collaborative, detail-oriented, and dedicated to delivering secure, high-availability solutions.

## Technical Skills

Cloud Services AWS CloudWatch, AWS CodePipeline, AWS (EC2, RDS, S3, ELB, VPC), AWS

Elastic Container Service (ECS), AWS IAM, Terraform

CloudFormation, Ansible, Docker, CI/CD, Jenkins Infrastructure as Code

Development & Automation Bash, Python, PowerShell, GitHub, JUnit

Project & Issue Tracking Jira, Confluence Monitoring & Analytics DataDog, Linux

# Professional Experience

Tech Mahindra June 2022 - Aug 2023

DevOps Engineer Pune, India

- Designed and supported scalable cloud-based and on-premise infrastructure, ensuring high availability, reliability, and performance.
- Automated provisioning and configuration of cloud resources using Infrastructure as Code (IaC) tools like Terraform and CloudFormation across AWS, Azure, and GCP.
- Developed automation scripts in Python, Bash, and PowerShell to streamline system operations, deployments, and routine tasks.
- Containerized applications using Docker and managed Kubernetes-based orchestration, enhancing resource utilization and scalability.
- Built and maintained CI/CD pipelines with Jenkins, GitLab CI/CD, and CircleCI, enabling seamless and efficient software deployment.
- Implemented and managed monitoring and logging solutions (Prometheus, Grafana, ELK Stack, DataDog) to track performance and reduce mean time to resolution (MTTR).
- Enforced security best practices, including data encryption, IAM policies, and secure network architecture, ensuring compliance with industry standards.
- Optimized cloud costs by leveraging AWS Cost Explorer, Azure Cost Management, and Google Cloud Pricing Calculator, achieving significant savings.
- Collaborated with cross-functional teams to align platform capabilities with application requirements and business
- Authored **detailed documentation** for platform configurations, deployments, and procedures to facilitate team onboarding and knowledge sharing.
- Resolved complex infrastructure issues promptly, minimizing service disruptions and improving operational efficiency.
- Planned and executed system upgrades, patches, and performance tuning to maintain security, stability, and compatibility with emerging technologies.

## Education

## Conestoga College

Masters in Cloud Development and Operations

Sept 2023 - Dec 2024

Waterloo, ON

## Vardhaman College Of Engineering

Bachelor of Technology in Electronics and Communication Engineering

Sept 2018 – Apr 2022 Hyderabad, Telangana

# **Projects**

#### Cloud Infrastructure Automation with Terraform and Packer

May 2024 - Aug 2024

Tools: AWS, Terraform, Packer, CloudWatch, Prometheus

Institution: Conestoga College

- Automated the provisioning of cloud infrastructure using Terraform to build and mange resources across multiple AWS
  accounts, following infrastructure-as-code best practices and security standards.
- Developed reusable Packer templates to create standardized, pre-configured Amazon Machine Images (AMIs), reducing deployment time and ensuring consistent server configurations.
- Integrated CloudWatch and Prometheus monitoring solutions with custom dashboards and alerting, achieving system uptime and faster incident response time.
- Implemented cost optimization strategies including resource tagging, right-sizing, and automated cleanup of unused resources, resulting in infrastructure cost reduction.

## Kubernetes-Based CI/CD Pipeline with GitLab and Helm

 ${
m Mar} \,\, 2024 - {
m May} \,\, 2024$ 

Tools: Kubernetes, GitLab CI/CD, Helm, Docker

Institution: Conestoga College

- Build a Kubernetes-based CI/CD pipeline using GitLab CI/CD, to automate the build, test, and deployment lifecycle.
- Deployed micro-services applications with Helm charts, ensuring consistency and ease of version control for Kubernetes manifests
- Implemented automated scaling policies and rolling updates in the ease of version control for Kubernetes manifests
- Integrated automated security scanning and testing into the pipeline, identifying and resolving potential issues before
  production deployment.

#### Certifications

## **AWS** Certified Cloud Practitioner

Feb 2024

Amazon Web Services (AWS)

# HashiCorp Certified: Terraform Associate

Mar 2024

HashiCorp

## Awards & Achievements

## Top Graduate in DevOps Engineering

Nov 2024

Conestoga College - Academic Excellence in Cloud Technologies

## Best Collaborative Team Member

Jul 2023

Tech Mahindra