

Sadhvi Sharma

Cloud Engineer | DevOps Engineer | Platform Engineer | Site Reliability Engineer

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Portfolio: sadvi11.github.io | GitHub: github.com/sadvi11

Permanent Resident of Canada. No sponsorship required. Available immediately. Open to remote across Canada and to relocation.

PROFESSIONAL SUMMARY

Cloud and DevOps engineer, five years' experience, including two and a half years keeping mobile network systems running for Bell Canada, T-Mobile US and Orange at Nokia against a contractual 99.9 per cent uptime guarantee. Amazon Web Services and Microsoft Azure, Kubernetes, Terraform, CI/CD pipelines, and production on-call. Known for testing that safety controls actually work rather than assuming they do. Twenty-six public repositories, every one passing its automated tests.

TECHNICAL SKILLS

Cloud: Amazon Web Services (EKS, ECS Fargate, Lambda, VPC, Transit Gateway, S3, RDS, Aurora, DynamoDB, IAM, Organizations, KMS, CloudWatch, Bedrock, SageMaker). Microsoft Azure (Container Apps, AKS, Container Registry, Entra ID, Key Vault, Log Analytics).

Infrastructure and containers: Terraform, AWS CloudFormation and StackSets, Azure Bicep, Docker, Kubernetes, Helm, Kustomize, Argo CD, GitOps.

CI/CD and security: GitHub Actions, Azure DevOps Pipelines, OIDC federation with no stored credentials. Open Policy Agent and Rego, Checkov, Trivy, Service Control Policies, least-privilege IAM. Control mapping for SOC 2, PCI DSS, PIPEDA, provincial FIPPA and OSFI B-13.

Reliability and monitoring: Prometheus, Grafana, CloudWatch, service level objectives and error budgets, blameless postmortems, production on-call. Linux, TCP/IP, DNS, load balancing, TLS, VPN, network segmentation.

Programming and AI: Python (boto3, FastAPI, Flask), Bash, HCL, SQL. Amazon Bedrock, Model Context Protocol, retrieval-augmented generation, pgvector, model evaluation, prompt-injection testing.

WORK EXPERIENCE

AI Hardware and Technology Specialist

Meta, through Influence Marketing | Calgary, Alberta | October 2025 to present

- Technical enablement on Meta AI products and extended reality hardware. Delivered training for more than 50 retail staff, reducing escalated issues by approximately 30 per cent.
- Build and maintain all cloud infrastructure listed under Selected Projects outside of working hours.

Solution Engineer, Cloud Core Network

Nokia | Delhi, India | December 2022 to July 2025

- Operated 5G mobile core network systems as containerised workloads on Kubernetes and OpenStack in live production, serving Bell Canada, T-Mobile US and Orange against a contractual availability guarantee of 99.9 per cent.
- Delivered a staged multi-site upgrade from 4G to 5G with zero subscriber downtime, sequencing sites to contain risk rather than migrating in parallel. Recognised with a Nokia appreciation award.
- Carried production on-call, led root cause analysis after incidents, and performed zero-downtime rolling upgrades gated by health checks as a contractual requirement.
- Worked directly with international carrier customers, translating technical constraints into terms non-specialists could act on.

RF and Systems Engineer

AA Electro Magnetic Test Labs | India | 2018 to 2020. Electromagnetic compatibility testing and measurement against published standards.

SELECTED PROJECTS

All are public, all pass automated tests on every change, and every figure below can be verified at github.com/sadvi11.

terraform-guard-mcp - Python, Terraform, Model Context Protocol

A tool that inspects a proposed infrastructure change and refuses to approve one that would destroy data. The decision is made by code, not by an AI model, so it cannot be talked out of it. **34 automated tests**; the pipeline removes each of the three safety controls on purpose and fails if the tests still pass. Found and fixed a security weakness in my own tool two hours after publishing it.

eks-ecommerce-microservices - Terraform, Helm, Amazon EKS

A twelve-component shopping application in five programming languages across two availability zones on Kubernetes. The pipeline deletes the cache server on every change and confirms the shopping cart data survived, so the reliability claim is tested rather than asserted.

aws-multi-account-governance - Terraform, AWS Organizations

Organisation-wide security rules for a multi-account AWS environment: six control policies, permission limits for delegated administrators, **44 tests** confirming the rules do what they claim, and an enforced restriction keeping data inside Canadian regions, mapped to PIPEDA, provincial privacy law and OSFI B-13.

aws-ec2-read-only-agent - Python, boto3, AI tool use

An assistant that answers questions about an AWS account but is prevented in code from changing anything, using an allow-list checked before any request leaves the machine. **36 tests**, none requiring cloud credentials.

sre-incident-practice, gitops-argocd-kubernetes, bedrock-rag-app

Incident write-ups from real outages I handled, follow-up items left visibly open. A deployment system whose pipeline breaks the running service on purpose and fails unless it self-repairs. A document question-answering service on Amazon Bedrock that reports when it lacks the information rather than inventing an answer.

EDUCATION

Master of Technology, Electronics and Communication Engineering

University of Delhi, India. Full merit scholarship.

Bachelor of Technology

Shri Mata Vaishno Devi University, India.

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900)
- AWS Certified Solutions Architect - Associate, scheduled September 2026

VOLUNTEER EXPERIENCE

Area Director, Toastmasters International, District 42

- Accountable for the membership, health and results of four to six member clubs, none of which reported to me, achieving outcomes through persuasion rather than authority.
- Visited each club twice a year with written reports, chaired Area Council meetings, and organised area-level speech contests.
- Placed second at Division level in the International Speech Contest, after winning at club and area level.

OPEN SOURCE CONTRIBUTION

- aquasecurity/trivy-checks, pull request 602. Submitted a fix allowing TLS 1.3 in a security policy that incorrectly rejected it. Open and awaiting maintainer review.