

TARANDEEP SINGH

DEVOPS & CLOUD ENGINEER | AWS | KUBERNETES | CI/CD | TERRAFORM | AWS CERTIFIED SECURITY SPECIALTY
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PROFESSIONAL SUMMARY

DevOps & Cloud Engineer with 5 years of experience architecting, deploying, operating, and securing AWS and Azure cloud infrastructure in enterprise environments. Specialized in cloud migration, AI Infrastructure, Terraform Infrastructure as Code, Kubernetes platforms, CI/CD automation, cloud governance, and production operations.

Recognized for driving cloud modernization initiatives, reducing infrastructure provisioning time by 90%, optimizing cloud costs by 40%, and executing zero-downtime migrations of enterprise workloads. Proven ability to improve cloud reliability, security posture, and operational efficiency through automation, governance controls, and infrastructure best practices.

CORE EXPERTISE

Cloud Infrastructure & Operations | Generative AI | Production Application Support | AWS & Azure Administration
Infrastructure as Code (Terraform) | CI/CD Automation | Monitoring & Troubleshooting
Cloud Security & Governance | Linux & Windows Administration | DevOps & SRE Practices

CERTIFICATIONS

- **AWS Certified Security - Specialty**
- **AWS Certified DevOps - Professional**
- **AWS Certified Developer - Associate**
- **HashiCorp Certified: Terraform Associate**

TECHNICAL SKILLS

AWS: EC2, S3, RDS, Lambda, VPC, IAM, SSM, ACM, ALB, EKS, ECS, ECR, Fargate, Route 53, Bedrock, SageMaker, API Gateway, SNS, SQS, SES, CloudFront, Security Hub, Glue, Kinesis, CloudWatch

Azure: Azure DevOps, AKS, App Service, Azure ML, VNet, Azure Storage, Key Vault, Load Balancer, RBAC, Azure CDN, APIM

Automation & CI-CD: Jenkins, Git, GitHub, GitHub Actions, Gitlab CI, Argo CD, Azure DevOps, Gen AI

IaC & Containers: Terraform, Docker, Kubernetes, Helm

Observability Tooling: Grafana, Prometheus, ELK, Splunk, CloudWatch, Snyk, Sonarqube

Operating Systems, Networking & Security: Linux, Unix, Windows, DNS, TCP/IP

Scripting & Databases: Python, Bash, Postgres, Redis, MYSQL, NoSQL

Collaboration & Documentation: Agile, Jira, Confluence, OpenAI, Claude, Cursor, Technical Documentation, Reporting

PROFESSIONAL EXPERIENCE

Cloud Engineer

Plurilogic | Montreal, QC, CA

April 2026 - Present

- Engineered and deployed AWS cloud infrastructure for enterprise AI knowledge assistant using AWS Bedrock, Terraform, and GitHub Actions, enabling automated provisioning, secure IAM configurations, and scalable deployment workflows.
- Drove Kubernetes operations on AWS EKS for 35+ microservices across 15+ tenants, leveraging HPA, RBAC, and Argo CD to improve scalability and enable reliable zero-downtime deployments.
- Architected Azure infrastructure for a federated ML platform spanning 200+ institutions, leveraging Azure Machine Learning and Nvidia Flare for privacy-preserving distributed model training.
- Implemented cloud security controls across production workloads using least-privilege IAM, AWS WAF, security groups, encryption, and Secrets Manager to protect applications and sensitive data.
- Troubleshooting cloud infrastructure and application issues across AWS and Azure, performing root cause analysis and documenting remediation steps to improve production reliability and operational support.

Senior DevOps Engineer

Sourcefuse | Mohali, India

August 2024 - January 2025

- Led the zero-downtime migration of Windows Server infrastructure including Active Directory, File Server, and Print Server from a third-party AWS account to the client's AWS environment, supporting thousands of users across 80 countries.
- Led the migration of silo-based tenant applications to a shared multi-tenant AWS microservice architecture with isolated tenant data, reducing infrastructure costs by approximately 70% while lowering operational overhead.
- Designed and built scalable AWS infrastructure using Terraform across EC2, VPC, S3, Cloudfront, IAM, Lambda, ECR, SNS, SQS, RDS, ALB, and EKS, reducing infrastructure provisioning time from 24 hours to approximately 2 hours.
- Managed 257 AWS cloud resources across production environments, ensuring high availability, access governance, and operational reliability through monitoring, IAM controls, incident management, and disaster recovery practices.

DevOps Engineer

Sourcefuse | Mohali, India

September 2022 - July 2024

- Orchestrated and maintained CI/CD pipelines using Jenkins, AWS CodeBuild, AWS CodePipeline, Azure DevOps, GitHub Actions, and Bitbucket, automating application builds, testing, and deployments across 8+ applications.
- Established cloud governance and compliance initiatives for SOC 2 and HIPAA environments by maintaining access controls, audit trails, and security monitoring using AWS Security Hub, Config, and Inspector.
- Integrated DevSecOps controls into CI/CD pipelines across 8+ applications, incorporating Snyk for SCA and vulnerability scanning and SonarQube for SAST as security quality gates, improving release security and software quality.
- Optimized AWS infrastructure by migrating workloads to Graviton instances and automating non-production environment shutdowns during nights and weekends, reducing cloud costs by approximately 40%.

Junior DevOps Engineer

Sourcefuse | Mohali, India

March 2021 - August 2022

- Evaluated and enhanced CI/CD, Infrastructure as Code, monitoring, and centralized logging across cloud environments, strengthening system security, reliability, and operational visibility.
- Optimized deployment workflows and performed application and infrastructure debugging, improving operational efficiency and reducing deployment time by 40%.
- Developed reusable Terraform modules, Python/Bash automation scripts, and configuration templates to standardize infrastructure deployments and reduce manual operational effort.
- Implemented centralized monitoring and alerting using Prometheus, Grafana, Amazon CloudWatch, and Datadog across 8+ applications, improving production visibility and accelerating incident detection.

EDUCATION

Master of Computer Science | January 2025- January 2026

Algoma University | Brampton, ON, CA

Bachelor of Technology in Computer Science and Engineering | July 2017 - July 2021

Chandigarh Engineering College | Mohali, IN

AWARDS

- **DevOps Engineer of the Quarter** – SourceFuse
Recognized for delivering cloud migration initiatives, infrastructure automation, and operational improvements.
- **Client Recommendation** – SourceFuse
Recognized for successfully migrating enterprise workloads and improving cloud infrastructure efficiency