

# NAVRAJ SINGH

## Cloud Engineer

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### SUMMARY

Cloud Engineer with 3 years of experience designing, deploying, and optimizing secure, scalable cloud infrastructures on AWS. Skilled in **CI/CD, Terraform, Kubernetes/EKS/AKS**, cloud migration, and performance optimization. Experienced in building high-availability environments, automating deployments, and ensuring compliance with **HIPAA, SOC2, and FINRA**. Strong problem-solving skills with a focus on reliability, scalability, and cost-efficiency.

### SKILLS

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| <b>Cloud Platforms:</b>                  | AWS (EC2, Lambda, ECS, EKS, S3, RDS, DynamoDB, CloudFront, ELB, VPC, IAM, CloudWatch, CloudFormation, Terraform, AWS CDK). |
| <b>Automation &amp; DevOps:</b>          | Ansible, Docker, Kubernetes, Jenkins, GitHub, Code Pipeline, Code Build, Code Deploy, Terraform, Yaml.                     |
| <b>Scripting &amp; Programming:</b>      | Python, Bash, PowerShell, JavaScript (Node.js).  |
| <b>Monitoring &amp; Logging:</b>         | Prometheus, Grafana, ELK Stack, CloudTrail, CloudWatch.  |
| <b>Security:</b>                         | AWS WAF, Shield, KMS, IAM, Security Groups, NACLs, AWS Security Hub.   |
| <b>Networking:</b>                       | VPC, Route 53, VPN, Direct Connect, AWS Transit Gateway.   |
| <b>Compliance &amp; Cost Management:</b> | HIPAA, GDPR, SOC, AWS Cost Explorer, AWS Budgets, Right-sizing, Spot Instances.  |
| <b>Tools &amp; Methodologies:</b>        | Agile, Scrum, CI/CD, Infrastructure as Code (IaC), Hybrid Cloud Networking.  |

### EXPERIENCE

#### Cloud Engineer | Tenet Healthcare Corporation, TX Jan 2025 – Current

- Led migration of **10% of on-prem healthcare workloads** to AWS, designing secure VPC architectures, subnets, route tables, and NAT Gateways to support scalable cloud adoption.
- Developed end-to-end **CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy**, enabling automated application deployments and eliminating manual release errors.
- Implemented enterprise-grade observability using **Amazon CloudWatch, CloudTrail, and AWS X-Ray**, improving system monitoring, reducing troubleshooting time by **3%**, and ensuring audit compliance.
- Conducted compute and storage cost-optimization across EC2, EBS, and S3, achieving an overall **18% reduction in monthly AWS spend** through rightsizing and lifecycle policies.
- Strengthened cloud security using **IAM least-privilege policies**, MFA enforcement, and HIPAA-aligned access controls, reducing potential security risks.

#### Cloud Engineer | Apex Fintech Solutions, TX Feb 2023 – Dec 2024

- Migrated **35%** of legacy trading microservices to a containerized architecture on **Amazon EKS**, improving scalability and enabling consistent, high-performance service execution during peak trading hours.
- Designed and implemented automated **CI/CD pipelines using AWS CodePipeline, CodeBuild**, and blue-green deployment strategies, reducing release failures and improving deployment reliability by **12%**.
- Provisioned cloud infrastructure using **Terraform (IaC)** to create VPCs, EKS clusters, security groups, IAM roles, DynamoDB tables, and **S3 storage** with full version control and repeatability.
- Improved low-latency trading performance by optimizing network paths with **NLB/ALB, VPC endpoints**, and dynamic auto-scaling, resulting in **22% faster** API response times.
- Strengthened platform security by applying IAM least-privilege policies, MFA, and role separation aligned with **SOC2 and FINRA** compliance standards.
- Enhanced compliance and platform resiliency by implementing **AWS KMS encryption**, secure networking policies, and audit-ready configuration baselines.

### EDUCATION

Bachelor of Science in Computer Science – University of Texas at Dallas, Texas, USA

GPA – 3.3

### CERTIFICATIONS

- [AWS Cloud Practitioner](#)
- Certificate of Cybersecurity and Defense