

# NEHA BELWAL

## SOFTWARE ENGINEER | DEVOPS | SITE RELIABILITY ENGINEER

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### PROFESSIONAL SUMMARY

Results-driven Software Engineer specializing in Site Reliability Engineering (SRE) and DevOps practices. Expert in building and scaling secure, high-performance distributed systems using AWS, Terraform, and CI/CD automation. Proven track record of improving vulnerability coverage by 60%, reducing remediation turnaround by 40%, and implementing enterprise-grade security compliance. Demonstrated expertise in incident management, infrastructure automation, and security-first DevOps practices to drive platform resilience at scale.

### PROFESSIONAL EXPERIENCE

#### Replicon | Software Engineer I - DevOps/SRE

October 2021 - Present

- Led enterprise-wide security infrastructure migration from HTTP to HTTPS across 50+ internal endpoints, ensuring encryption-in-transit compliance and achieving 100% secure communication protocols
- Architected and deployed FIPS-compliant AMI updates and migrated AWS Lambda runtimes to Docker containers, strengthening security posture and meeting compliance mandates
- Orchestrated ECS workload transition from Fargate to EC2 infrastructure leveraging FIPS-validated AMIs, ensuring enterprise-grade security compliance across all containerized applications
- Served as sole technical owner for integrating comprehensive security tooling suite including Checkmarx, KICS, BlackDuck, CrowdStrike Falcon, and Qualys into CI/CD workflows, scanning 200+ repositories daily
- Automated security scanning pipeline for codebases, dependencies, and container images, improving vulnerability coverage by 60% and reducing remediation turnaround time by 40%
- Led three critical Infrastructure as Code (IaC) projects using Terraform, provisioning complete AWS environments including VPC, ECS, RDS, S3, IAM, and CloudWatch configurations
- Delivered final infrastructure swimlane deployment 2 weeks ahead of schedule, standardizing infrastructure provisioning and reducing manual configuration errors by 90%
- Designed and implemented organization-wide reusable GitHub Actions workflows for static analysis and security scanning, reducing deployment time by 1-2 days per update across multiple repositories
- Drove comprehensive environment health monitoring initiative using OpenTelemetry, Grafana, and Sumo Logic, optimizing log pipelines and generating actionable performance insights
- Collaborated with SRE Foundation team on high-severity incident response, participating in on-call rotations and reducing Mean Time to Recovery (MTTR) for customer-impacting issues
- Conducted Application Performance Monitoring (APM) vendor proof-of-concept evaluations, assessing integration complexity, performance impact, and cost-benefit analysis
- Resolved critical ACL inconsistencies during client data restoration using AWS .NET SDK (C#), ensuring secure and seamless data recovery operations

## TECHNICAL SKILLS

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### Programming Languages

Python, JavaScript, C#, SQL

### Cloud Platforms & Services

AWS (VPC, EC2, ECS, ECR, ELB, Auto Scaling Groups, Route53, IAM, CloudWatch, S3, Lambda, NAT Gateway, VPC Peering, Endpoints)

### Infrastructure as Code

Terraform

### CI/CD Tools

GitHub Actions, AWS CodePipeline, AWS CodeBuild, AppVeyor

### Security & Compliance

FIPS, Checkmarx, KICS, BlackDuck, CrowdStrike Falcon, Qualys

### Containerization

Docker

### Monitoring & Observability

OpenTelemetry, Grafana, Sumo Logic, Dynatrace

### Content Delivery & Networking

Cloudflare (CDN, DDoS Protection, Caching, Security Rules)

### Frameworks

Node.js, Express.js, AWS SDKs (Python, JavaScript, .NET)

## EDUCATION

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**Master of Science in Computer Science** | *D.S.B. College* | 2019-2021

**Bachelor of Science in Computer Science** | *M.B. Govt. P.G. College* | 2016-2019

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

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- AWS Certified Cloud Practitioner (In Progress)
- Terraform Associate Certification (Planned)
- Continuous learning in Site Reliability Engineering and DevOps best practices