NEHA BELWAL

SOFTWARE ENGINEER I

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SUMMARY_____

Results-driven Software Engineer (SRE/DevOps) in building and scaling secure, high-performance distributed systems. Skilled in cloud infrastructure automation, CI/CD pipeline optimization, observability, and security tooling. Proven track record of enhancing system reliability, integrating enterprise-grade security solutions, and accelerating release cycles for SaaS environments. Seeking to leverage expertise in AWS, Terraform, and security-first DevOps practices to drive platform resilience at scale.

WORK EXPERIENCE_____

Replicon | Software Engineer I | October 2021 - Present

- **Security & Compliance**
    - Migrated intra-network communication from HTTP to HTTPS, enforcing encryption-in-transit across internal endpoints.
    - Updated FIPS-compliant AMIs and refactored AWS Lambda runtimes to Docker images for enhanced security.
    - Transitioned ECS workloads from Fargate to EC2 to leverage FIPS-validated AMIs, aligning with compliance mandates.
        - Impact: Achieved enterprise-grade encryption compliance and strengthened system-wide security posture.

- **Security Tooling Integration (Solo Project)**
    - Led as Sole technical owner for integrating Checkmarx, KICS, Blackduck, CrowdStrike Falcon, and Qualys into CI/CD workflows.
    - Automated scanning for codebases, dependencies, and container images to ensure early vulnerability detection.
        - Impact: Improved vulnerability coverage by ~60% and reduced remediation turnaround by ~40%.
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- **AWS Infrastructure Provisioning (Terraform)**
    - Led three IaC projects: twice provisioning full AWS environments (VPC, ECS, RDS, S3, IAM, CloudWatch, etc.), once orchestrating complete infra teardown.
    - Delivered the last swimlane in record 2 weeks, ahead of schedule.
        - Impact: Standardized infra provisioning, reduced manual errors, and accelerated environment readiness.

- **Reusable GitHub Actions Workflows**
    - Designed and implemented org-wide reusable workflows for static analysis/security scanning.

- - ○ Automated Checkmarx and KICS workflows across multiple repos, saving 1–2 days per update for every fix rollout.
      - Impact: Increased CI/CD efficiency and ensured consistent security compliance across teams.

  - **Monitoring & Reliability**
    - Drove environment health monitoring project with Opentelemetry, Grafana, and Sumo Logic; optimized log pipelines and generated actionable insights.
    - Partnered with the SRE Foundation team to mitigate high-severity incidents, applying best practices in incident response.
    - Participated in on-call rotations, handling live customer-impacting issues and reducing mean time to recovery (MTTR).

  - **Additional Contributions**
    - Conducted APM vendor POC to evaluate integration, performance, and cost tradeoffs.
    - Resolved ACL inconsistencies during client data restoration using AWS .NET SDK (C#), ensuring secure and seamless recovery.

SKILLS_____

- **Programming Languages:** Python, JavaScript, C#, SQL, HTML/CSS

- **Frameworks:** Node.js, Express.js, .NET Framework, AWS SDKs (Python, JavaScript, .NET)

- **Cloud Platforms:** AWS (VPC, EC2, ECS, ECR, ELB, ASG, Route53, IAM, CloudWatch, S3, Lambda, NAT Gateway, VPC Peering, Endpoints)

- **Infrastructure as Code (IaC):** Terraform

- **CI/CD Tools:** GitHub Actions, AWS CodePipeline, AWS CodeBuild, AppVeyor

- **Security & Compliance**: FIPS, Checkmarx, KICS, Blackduck, CrowdStrike Falcon, Qualys

- **Containerization & Orchestration**: Docker

- **Content Delivery & Networking**: Cloudflare (CDN, DDoS Protection, Caching, Security Rules)

- **Monitoring & Observability**: Opentelemetry, Grafana, Prometheus, ELK Stack, Sumo Logic, Dynatrace, Grafana Tempo

- **Core Concepts**: OOP, Data Structures & Algorithms, Distributed Systems, Resiliency Engineering, Backend Development

- **Key Strengths** : Cloud Security | DevSecOps | Infrastructure Automation | Reliability Engineering

Education_____

- **D.S.B. College**
  Masters in Science   2019-2021
- **M.B. Govt. P.G. College**
  Bachelors in Science   2016-2019