NIKHIL SINGH

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Summary

Seasoned Cloud Engineer with 3+ years of expertise in designing, implementing, and optimizing AWS cloud environments. Proven track record of translating business requirements into resilient, scalable architecture while reducing operational costs through strategic automation.

Certifications

- AWS Certified Developer – Associate (ZQJZ42BKRMEE1P9N)
- Oracle Cloud Infrastructure Foundations – Associate
- IBM Developer Skills Network – SQL & Relational Database 101 (DB0101EN)
- IBM Developer Skills Network – Docker Essentials (CO0101EN)
- Acumatica W140 Customization Projects 2023 R1 (102578382)

Experience

Solutions Architect – Readywire   *06/2023 – Present*

Readywire is a cloud-based ERP solution tailored for automotive dealerships in India, delivering a unified platform for HR, GST compliance, accounting, and inventory management to drive end-to-end digital transformation.

- Implemented an automated RDS monitoring system using AWS Lambda to detect high CPU utilization and dynamically manage slow query logging and analysis, improving DB performance by 80%.
- Provisioned AWS infrastructure using Terraform and CloudFormation, significantly reducing manual intervention and human error.
- Built a CI/CD pipeline for Acumatica Customization using Batch, PowerShell, REST API, and Jenkins—reducing delivery time from 3 hours to 45 minutes.
- Developed a PowerShell GUI application to streamline IIS web configuration by securely modifying and encrypting web.config files across environments.
- Automated MySQL backups with encrypted credential handling, definer cleanup, 7z compression, S3 integration, and pre-signed URL generation using Bash scripting —cutting down manual operations by 65%.
- Designed custom monitoring dashboards and critical alert systems using Grafana and CloudWatch to track infrastructure health and performance.
- Architected a containerization strategy with Docker and ECS/Kubernetes, transforming monolithic apps into microservices with secure CI/CD pipelines and intelligent auto-scaling—achieving 75% faster deployments and 40% better resource utilization while maintaining 99.9% uptime.

Tech Stack: Python, Serverless Framework, Terraform, Git, Jenkins, Linux, MySQL, DynamoDB
AWS Stack: Lambda, S3, EC2, SNS, SQS, RDS, API Gateway, Route 53, Secrets Manager, ACM, CloudFormation

Associate Engineer – TCS   *08/2021 – 06/2023*

- Managed IAM permissions and security groups for 200+ users, enforcing least privilege access and automating reviews—cutting access-related support tickets by 55%.
- Acted as the primary AWS technical liaison between development and infrastructure teams during critical incidents—streamlining troubleshooting and communication.
- Authored detailed runbooks and KB articles for frequent AWS issues, enabling Tier-1 teams to resolve 45% more tickets independently and reducing escalations by 30%.

Tech Stack: Python, Pandas, Matplotlib, Flask, AWS CloudWatch, Grafana, ServiceNow Dashboards, Git

Skills

- **Languages & Frameworks:** Python, NumPy, Pandas, Golang, PowerShell, Bash
- **Cloud & DevOps:** AWS, Linux, Docker, Terraform, Jenkins, CircleCI, CI/CD
- **Tools:** GitHub, GitHub Actions, Grafana, MySQL
- **Other:** IIS Server Management, Network Security

Education

Bachelor of Science – Physics (Honours)

Invertis University, Uttar Pradesh | 2018 – 2021