

RAMANDEEP SINGH

SENIOR DEVOPS ENGINEER

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SUMMARY

Experienced Cloud Enthusiast and DevOps Engineer specializing in designing, implementing, and maintaining highly available AWS infrastructure. Proven track record of spearheading CI/CD automation to guarantee seamless, zero-downtime deployments. Adept at translating complex client requirements into scalable, robust, and cost-effective technical solutions.

EXPERIENCE

Senior DevOps Engineer

Qwikgig

📅 Feb 2025 - Present

- Designed robust compliance frameworks for call center operations for Audit Sail, achieving 99.99% system uptime.
- Streamlined GitHub Actions delivery workflows leveraging parallel execution and Docker layer caching, reducing deployment times by 30%.
- Orchestrated the rollout of a vehicle insurance claims system (Claim Sail) using AWS AppRunner, ECS Fargate queue systems, and ElastiCache on Redis to process 10,000+ daily requests.
- Constructed Aurora Serverless databases with a comprehensive cost monitoring dashboard and alert system, reducing infrastructure overhead by 20%.
- Devised multi-region Disaster Recovery (DR) strategies using Python (Boto3) for automated failover and replication, ensuring zero data loss.
- Established strict FinOps controls and anomaly detection for enterprise cloud budgets, reducing AWS spend by 25%.
- Built a comprehensive observability stack utilizing Grafana, Tempo, OpenTelemetry, Loki, Thanos, Prometheus, and AWS CloudWatch to monitor 50+ microservices.
- Automated AWS Lambda CI/CD lifecycles via GitHub Actions, including dependency layer management and configuration updates, saving 10 hours of manual work weekly.
- Enforced least privilege IAM policies and configured OIDC-based authentication for seamless GitHub integrations across 20+ repositories.
- Provisioned infrastructure with strict environment segregation, enforcing standardized naming conventions and resource tagging for over 500 AWS resources.
- Automated repetitive operational tasks using AWS Lambda, Step Functions, and EventBridge Schedulers, eliminating 90% of manual maintenance operations.

EDUCATION

B.Tech in Electronics & Communication Engineering (ECE) - 67%

[Giani Zail Singh Campus Bathinda \(MRSPTU\)](#)

📅 Class of 2016

Senior Secondary (12th) - 71%

[Punjab School Education Board \(PSEB\)](#)

Matriculation (10th) - 71%

[Punjab School Education Board \(PSEB\)](#)

KEY ACHIEVEMENTS

🔪 Audit Sail

- Developed highly resilient infrastructure frameworks ensuring 100% regulatory compliance for sensitive audio data storage.
- Streamlined software delivery lifecycles by introducing container caching mechanisms, accelerating build times significantly.
- Formulated active-passive redundancy architectures leveraging serverless Python functions to guarantee continuous service availability.

🏆 Claim Sail

- Delivered a serverless containerized solution utilizing AWS AppRunner and Fargate to handle asynchronous processing tasks at scale.
- Created real-time financial tracking dashboards to enforce budget limits and identify billing anomalies proactively.
- Applied FinOps methodologies to cloud architectures, driving down monthly operational expenditures without compromising performance.

🇮🇳 Physician's Weekly

- Architected a highly scalable PHP/WordPress environment on AWS.
- Implemented Amazon CloudFront CDN to optimize global static content delivery and reduce latency for 10,000+ daily healthcare users.

DevOps Engineer

Primotech

📅 Mar 2021 - Aug 2024

- Analyzed client technical requirements and built cloud foundations adhering to cloud best practices, delivering 15+ successful client projects.
- Orchestrated multi-stack application deployments (Node.js, Laravel, CodeIgniter, WordPress, Python), reducing time-to-market by 40%.
- Created reliable delivery pipelines across GitHub Actions, GitLab CI/CD, Bitbucket Pipelines, and Jenkins for over 30 applications.
- Provisioned and optimized AWS architectures spanning EC2, VPC, S3, RDS, CloudWatch, DynamoDB, and IAM to support 100,000+ monthly active users.
- Managed and integrated cross-platform solutions leveraging Azure and Google Cloud Platform (GCP) for hybrid cloud environments.
- Spearheaded data transformations on GCP utilizing Data Fusion, DataPrep, and BigQuery, processing over 500GB of daily data.
- Developed Python automation scripts to streamline reporting and time-tracking tasks, boosting team productivity by 20%.

System Administrator

Montbit Technologies

📅 Jun 2020 - Mar 2021

- Designed and implemented fault-tolerant backend APIs tailored to SaaS product demands, supporting a 50% increase in user traffic.
- Maintained and optimized AWS infrastructure for a high-traffic E-Learning SaaS platform with 20,000+ active students.
- Scripted the provisioning of PHP Laravel stacks using Terraform and custom Bash scripting, cutting setup time from days to hours.
- Established proactive alerting thresholds for CPU and memory anomalies via AWS CloudWatch, reducing system downtime by 35%.

System Engineer

Paxcel Technologies

📅 Oct 2019 - Jun 2020

- Provisioned and administered core AWS resources including 50+ EC2 instances and highly available RDS databases.
- Resolved critical connectivity and routing issues between internal networks and AWS services, maintaining 99.9% network reliability.
- Maintained enterprise fleet integrity across 200+ Windows, Mac, and Linux environments through automated configuration management.
- Integrated Docker containerization and fundamental monitoring stack tools to improve application portability and visibility.

Network Administrator

ucreate

📅 Jul 2018 - Oct 2019

- Managed firewall security policies and administered local Linux server farms consisting of 30+ physical servers.
- Diagnosed and mitigated complex network latency and routing bottlenecks, improving overall network speed by 25%.
- Executed systematic patch management and maintenance protocols across all servers to ensure 100% compliance with security standards.

★ Va Vision

- Deployed a multi-tenant SaaS application on AWS Elastic Beanstalk with RDS integration.
- Developed and maintained Infrastructure as Code (IaC) using Terraform to fully automate client onboarding workflows.

🔊 Abrams Books

- Orchestrated the migration of massive data pipelines from legacy sources (Snowflake, Talend) to GCP.
- Leveraged BigQuery and Data Fusion to transform and serve enterprise data at scale, reducing processing time by 60%.

SKILLS

AWS EC2 VPC S3 RDS CloudWatch
DynamoDB IAM Route 53 Azure
GCP Kubernetes Docker Terraform
GitHub Actions GitLab CI/CD
Bitbucket Pipelines Jenkins
Linux System Administration SQL
Python Bash GCP Data Fusion
DataPrep BigQuery

EXPERIENCE

Network Engineer

Galactic Solutions Mohali

📅 Nov 2016 - Jul 2018

- Executed comprehensive troubleshooting and performance tuning for 50+ Linux-based systems.
- Configured, maintained, and monitored network devices to ensure maximum uptime for a 100-person office network.
- Gained foundational expertise in cloud infrastructure architectures and AWS through hands-on deployment of testing environments.