Dhruv Patel
Cloud Engineer

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Professional Summary:

- Cloud Engineer with over 3+ years of hands-on experience in designing, implementing and optimizing highly complex cloud infrastructures across various industries.
- Expert in leveraging AWS services to architect scalable, secure, and cost-effective solutions with a deep understanding of cloud best practices and architectural patterns.
- Highly proficient in Infrastructure as Code (IaC) tools such as Terraform, and skilled in automation scripting using Python to streamline cloud operations.
- Proven expertise in migrating and managing diverse workloads, including microservices, databases, and enterprise applications, ensuring seamless cloud adoption and integration.
- Demonstrated success in driving operational efficiency and reliability through the implementation of robust CI/CD pipelines and DevOps practices, enhancing deployment speed and reducing downtime.
- Strong analytical and problem-solving abilities, consistently delivering high-performance, resilient cloud environments that meet and exceed business objectives.

Technical Skills:

Cloud Platforms:	AWS (EC2, Lambda, ECS, EKS, S3, RDS, DynamoDB, CloudFront, ELB, VPC, IAM, CloudWatch, CloudFormation, Terraform, AWS CDK).
Automation & DevOps:	Ansible, Docker, Kubernetes, Jenkins, Git, GitHub, CodePipeline, CodeBuild, CodeDeploy, Terraform.
Scripting & Programming:	Python, Bash, PowerShell, JavaScript (Node.js).
Monitoring & Logging:	Prometheus, Grafana, ELK Stack, CloudTrail, CloudWatch.
Security:	AWS WAF, Shield, KMS, IAM, Security Groups, NACLs, AWS Security Hub.
Networking:	VPC, Route 53, VPN, Direct Connect, AWS Transit Gateway.
Data Services:	Redshift, Athena, Kinesis, EMR, AWS Glue, Data Lake Formation, Snowball, DMS.
Compliance & Cost Management:	HIPAA, GDPR, SOC, AWS Cost Explorer, AWS Budgets, Right-sizing, Spot Instances.
Tools & Methodologies:	Agile, Scrum, CI/CD, Infrastructure as Code (IaC), Hybrid Cloud Networking.

Education:

Master of Computer Science - Stevens Institute of Technology, New Jersey, USA.

Bachelor of Computer Engineering – Mumbai University, Maharashtra, India.

Professional Experience:

Verizon – NJ   **Sep 2023 - Current**
Cloud Engineer

- Designed and deployed a multi-VPC architecture across multiple AWS regions to enhance network segmentation and security, resulting in a 35% reduction in security incidents.
- Automated the deployment and scaling of over 50+ microservices using AWS ECS with Fargate, reducing manual provisioning time by 40%.
- Implemented serverless workflows using AWS Lambda and API Gateway, optimizing backend processing time by 30% and lowering operational costs by 25%.
- Design, develop, and maintain AWS infrastructure using Terraform, ensuring scalable, reliable, and cost-effective cloud environments.
- Develop Python scripts to automate cloud infrastructure provisioning, configuration, and deployment processes across multiple AWS services.
- Optimize the performance of cloud applications and services by writing efficient code in C and C++, focusing on resource utilization and execution speed.
- Design, manage, and optimize cloud-based databases using SQL and MongoDB, ensuring high availability, performance, and security.
- Developed & managed CI/CD pipelines using AWS CodePipeline, CodeBuild & CodeDeploy, reducing deployment time by 50%. Implemented secure hybrid cloud networking solutions using VPN, Direct Connect & AWS Transit Gateway.

Cloud Engineer

- Implemented robust cloud infrastructure solutions leveraging AWS core services (EC2, S3, VPC, RDS, IAM) to support critical business applications.
- Migrated complex workloads to the AWS cloud, optimizing cost and performance while ensuring minimal downtime.
- Developed and implemented automation strategies using AWS CloudFormation and Terraform to streamline infrastructure provisioning and management.
- Designed and implemented secure network architectures utilizing VPC, subnets, security groups, and NACLs to protect sensitive data.
- Develop custom tools and utilities using JavaScript to enhance productivity, automate repetitive tasks, and improve overall cloud management efficiency.
- Managed and optimized AWS storage solutions (S3, EBS, Glacier) to meet performance, cost, and compliance requirements.
- Implemented robust backup and disaster recovery solutions using AWS Backup and S3 to ensure data protection and business continuity.
- Utilized AWS monitoring and logging services (CloudWatch, CloudTrail) to maintain system health & troubleshoot issues. Leveraged AWS Identity and Access Management (IAM) to establish secure access controls & user permissions.
- Collaborated with development and operations teams to implement CI/CD pipelines using AWS CodePipeline for efficient software delivery.
- Optimized cloud costs through effective resource utilization, rightsizing instances, and leveraging cost-saving options like Reserved Instances and Spot Instances.