

RAKESH KUMAR MOHAPATRA

Senior Cloud Architect

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Summary:

Overall, 17 years of expertise in the IT sector, I have skills in public cloud platforms **AWS**, **Azure** and **GCP**. Strong background in Design, Architect, Implementation of cloud resources and have fulfilled diverse roles including **Cloud Architect**, **DevOps**, **Cloud Engineer**. Throughout my career, demonstrated success in crafting and deploying **IAAS**, **PAAS**, and **SAAS** solutions tailored to the specific needs of business requirements across different industries.

Experience:

Northern Trust, Chicago || Senior Cloud Architect || Feb 2024 - Till Date

- Working with Financial Sector client and architect secure and reliable cloud solution.
- Architectural presentation with executives CIO, CTO and translating business requirements into scalable and reliable solutions in Azure and Aws
- Lead various cloud POC projects, in collaboration with different vendors and ensure successful implementation over the cloud
- Designed and implemented end-to-end Azure DevOps pipelines to support CI/CD processes, ensuring smooth and consistent code delivery and deployment.
- Led the development of a scalable, cloud-native DevOps architecture using Azure Kubernetes Service (AKS) and Azure Functions, aligning with business objectives
- Technical guidance to engineering teams, ensuring best practices for application deployment, security, and performance optimization.
- Collaborate with cross-functional teams to develop and execute cloud migration strategies, resulting in cost reduction and improved system reliability for clients.
- Defined best practices for cloud-native development, deployment, and **Infrastructure as Code (IaC)** using Terraform, resulting in improved team productivity Mentor cross-functional teams, driving the adoption of modern DevOps, Gitops tools and frameworks such as Terraform and Ansible
- Design solutions to build applications using microservices (**Kubernetes, AKS, EKS**)
- Designed and implemented an end-to-end ETL data pipeline using Azure Data Factory to ingest, transform, and load data from various sources
- Ensuring cloud security and compliance PII, PCI DSS, GDPR, data encryption and Data Masking during migration processes.
- Architect data pipelines using AWS Glue, Lambda, and S3, enabling real-time analytics for business-critical dashboards
- Integrated Azure Databricks with ADLS, Azure Data Factory, and Azure Synapse to implement scalable and efficient ETL workflows
- Cloud Data Lake and Data warehouse designing, planning and configuration
- Plan and Design Disaster Recovery solutions and ensure high availability for critical applications.

McKinsey and Company, Atlanta || Senior Cloud Architect || Feb 2022 - Feb 2024

- Designed and implemented cloud solutions leveraging **AWS, Azure and GCP**
- Create POCs and **IT infrastructure solution design on public cloud platforms** based on functional/non-functional specifications.
- Collaborated with cross-functional teams to develop cloud platform architecture patterns that addressed operational gaps and produced greater efficiencies in system development, network security, solution delivery, and cost performance
- Experience in Architecting and Designing solutions leveraging Cloud services
- Implemented and maintained CI/CD pipeline using **AWS, GCP Native CI/CD tools**.
- Integrated Azure DevOps with third-party tools, such as Slack and Jira, to streamline communication and enhance productivity
- Managed **Azure Identity and Access Management (IAM)** policies to ensure secure access and improve **role-based access controls (RBAC)**
- Designed a data analytics pipeline using Kinesis Data Streams, Lambda, and S3, enabling real-time data ingestion and processing. Integrated with Redshift and quick sight
- Leveraged Azure Functions and Logic Apps for scalable, serverless workflows to automate data ingestion, processing, and notification tasks, improving data flow
- Monitored system performance and optimized Azure DevOps pipelines, improving efficiency and reliability of deployments
- Implemented security best practices with a focus on zero-trust principles, including role-based access controls (**RBAC**) and secure service-to-service communication.
- Collaborated with security teams to integrate Azure Active Directory (AAD) for identity management and multi-factor authentication, improving compliance and security
- Assisted in architecting cloud infrastructure using Azure resources, such as AKS, Azure Functions, and Azure Monitor, to provide a resilient and scalable environment

Fidelity Investments, Durham || Cloud Architect || Mar 2021 - Feb 2022

- Understand business needs, constraints and provide technical solutions to increase business profitability and efficiency.
- Lead and design architectures for complex solutions ensuring consistency with business requirements and expectations over AWS cloud and Hybrid cloud
- Experience on Designing the deployment of Enterprise level cloud environments
- Successfully provisioned cloud solutions, resources for various business units in both production and non-production environments.
- Worked with DevOps, architects and application team to build fully automated Cloud resources creation and application deployment by leveraging Jenkins/Helm/Terraform
- Implement event driven Architecture using AWS lambda, REST API etc. provide solution
- Managed and led multiple software development projects, focusing on cloud-based solutions to improve overall system efficiency
- Developed automated CI/CD pipelines with Jenkins, AWS Code Pipeline, and AWS Lambda for seamless deployments, increasing release frequency by 40%
- Designed and implemented a robust monitoring and alerting system using Prometheus, Grafana, and CloudWatch, improving uptime and reducing incident response times
Implemented innovative security monitoring solutions in line with the company's cloud strategies enhancing overall system security.

- Used strong ability to communicate to successfully collaborate with cross-functional teams in the design and implementation of advanced cloud-based solutions
- **Infrastructure as code** with technologies like Terraform, cloud formation etc.

Motorola Solutions, Chicago || Solution Architect || June 2017 - Feb 2021

- Design Cloud Architecture for clients on AWS, Azure public cloud
- Designing and implementing efficient Extract, Transform, Load (ETL) processes to facilitate seamless data flow within organizations.
- Orchestrated the adoption of CI/CD pipelines utilizing Jenkins, GitLab, and Code Pipeline streamlined release cycles
- Created monitoring and alerting systems with CloudWatch, Datadog, and AWS Lambda for automated remediation, achieving a 30% reduction in incident response times
- Configured secure VPC network across multiple regions, leveraging Route 53 for DNS management and Direct Connect for hybrid connectivity.
- Enhanced data security and compliance by configuring AWS Key Management Service (KMS) and CloudTrail for encryption and auditing purposes
- Leveraged cutting-edge vulnerability assessment tools to conduct thorough network and application technical vulnerability assessments
- Deployed and managed Docker containers in Kubernetes (EKS and AKS) clusters, leveraging Helm for Kubernetes deployments and updates. Improved application scalability and reduced resource consumption
- Designed and developed end-to-end data pipelines in Azure Databricks to process and transform large datasets for analytics and reporting
- Architected scalable and fault-tolerant AWS cloud environments, leveraging Auto Scaling Groups (ASG), Elastic Load Balancers (ALB and NLB), and Route 53 for dynamic DNS management across multi-region deployments
- Experience with various technology, cloud sales end clients with various sector
- Improve cloud infrastructure manageability and efficiency by collaborating with operational and technical teams to determine specifications for systems and user accounts.

GOOGLE, Sunnyvale || Devops Engineer || Mar 2016 - May 2017

- Advocate DevOps culture and Automate with the **DevOps tool in GCP, AWS.**
- Design and configure various cloud resource using IAC, Cloud formation
- Implement security standards and patches quarterly to DB and OS
- Developed a CI/CD pipeline leveraged Terraform for IAC, Jenkins for CI/CD, and Docker for containerization
- Optimized S3 storage and lifecycle policies to reduce storage costs over cloud
- Defining IAC strategies using Terraform and AWS CloudFormation to automate the provisioning of VPCs, EC2 instances, RDS, S3, and networking components
- Responsible for creating security group, NACL, load balancers in virtual private cloud.
- Monitor cloud services using CloudWatch alarms, events and notifications using SNS.
- Migrating applications and databases using AWS Database Migration Service (DMS)
- Build various application using bash, python, json, node.js, GO programming
- Worked with Relational databases, NoSQL databases and Big Data technologies
- Deliver on established client SLA's, Monthly Deliverables and Weekly Metrics

Rackspace, India || Principal Database Administrator || Dec 2011 - Feb 2016

- Provide Production support to 20 + customer with 24x7 working model

- Gather client requirement for DB and Applications
- Ensure DB and Application and other technologies
- Oracle Application & database upgradation to 11g, 12c

ORACLE, India || Application Database Administrator || Nov 2009 - Dec2011

- DB/ERP support to 30 + customers from Japan Territory
- Database Refresh from Production environment to Dev and Test Instances.
- Patching and maintenance for test, development and production instances.
- Oracle Application 11i, R12 support and implementation

HCL Technologies, India || Database Administrator || Nov 2007 - Nov 2009

- Onsite client support for test, development, and production instances.
- Oracle Application 11i implementation and support.
- Cloning rapid clone from Production database to Development
- Extensively worked on Oracle Applications AD Utilities.

Skills:

GCP, Azure, AWS, CI/CD, Kubernetes, Docker, Database, Load Balancer, Ansible, UDeploy, Jenkin, Concourse, AgroCD, Jfrog, Chef, Puppet, Terraform, Git, GitHub, GitHub action, Cloud formation, Rest API ,ITIL, Tableau, Power BI ,Monitoring, Logging, Tuning, Kubernetes ,GKE,EKS,AKS, DevOps, Gitops, NAS,EFS, Blob storage EKS,EC2,RDS,Postgresql, Cloud SQL, Redshift, BigQuery, Oracle, Devops, Delphix, Veeva, Snowflake, Liquibase, Data Factory, Agile Continuous Integration, Azure Databricks, Azure Data Lake Storage (ADLS), Azure Synapse Analytics, Azure Data Factory (ADF), Azure Key Vault, Azure Monitor, Data Lake, Data warehouse, Big Query, GKE, GCE, Guard Duty, WAF Shield, Azure Devops, Azure Function, Enterprise Architect

Education:

- Bachelor in Technologies in ECE (MITS, Berhampur University), India
- General Management in Information and Technologies (IIM Bangalore) India