Nitin Khaneja

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About

Innovative and results-driven Cloud Solutions & DevOps Engineer with expertise in architecting scalable, secure, and cost-efficient cloud solutions. Passionate about optimizing cloud performance, automating deployments, and enhancing infrastructure reliability. Proficient in Microsoft Azure, AWS, Terraform, Kubernetes, and Azure DevOps, with a strong focus on MLOps, data engineering, and containerization.

Education

Bachelor of Technology – Computer Science and Engineering

Primary Technical Skill Set

- Cloud Solutions Architecture
- Microsoft Azure Cloud
- Amazon Web Services (AWS) Cloud
- Azure MLOps
- Data Engineering
- Azure DevOps
- Terraform
- Docker
- Kubernetes

Secondary Technical Skill Set

- HTML
- CSS
- JavaScript
- jQuery
- Bootstrap
- Shell Scripting
- Python
- Flask/Gunicorn
- PowerShell
- GIT
- Linux
- SQL/MySQL

Active Certifications

- Amazon Web Services (AWS) Certified Cloud Practitioner (CLF-C02)
- Amazon Web Services (AWS) Certified Solutions Architect Associate (SAA-C03)
- Microsoft Certified Azure Administrator (AZ-104)
- Microsoft Certified DevOps Engineer Expert (AZ-400)
- Microsoft Certified Azure Fundamentals (AZ-900)
- Microsoft Certified Azure Data Fundamentals (DP-900)
- Microsoft Certified Azure Data Engineer Associate (DP-203)
- Microsoft Certified Azure Solutions Architect Expert (AZ-305)
- Microsoft Certified Azure Security Engineer Associate (AZ-500)

Work Experience

Senior Consultant - Deloitte Consulting India Pvt Ltd, Gurgaon   **May 2021-Present**

Industry: ER&I, FMCG
Role: Cloud Architect for Data Engineering & MLOps Processes
Responsibilities:
- Developed and implemented a comprehensive MLOps framework to streamline machine learning workflows and enhance model deployment efficiency.
- Established a centralized repository for MLOps using Azure DevOps Artifacts, facilitating seamless integration and management of pip packages within the MLOps framework.
- Led the deployment of both batch and real-time endpoints on Kubernetes and Managed Endpoints, optimizing operational efficiency and system scalability.

- Implemented Streamlit for advanced data visualization, incorporating robust authentication and security policies to safeguard data integrity.
- Created an RCA (Root Cause Analysis) tool integrated with ServiceNow to automatically suggest resolutions for incidents, enhancing issue resolution times and service reliability.
- Led a cross-functional team of data engineers and data scientists, fostering a collaborative environment to drive innovation and project success in data-centric projects.
- Orchestrated complex ETL processes using Azure Data Factory with a Job Manager, improving the management and transparency of pipeline operations.
- Leveraged Azure Synapse Analytics to architect and maintain a high-performance data warehousing solution, supporting advanced data analysis and business intelligence activities.

Cloud Automation Engineer - Brainscale Inc, Noida   **Oct 2019 – May 2021**

Industry- Animal Healthcare
Role: DevOps Engineer
Responsibilities:
- Worked on infrastructure as code (IaC) using Terraform, optimizing the provision and management of cloud resources efficiently and reliably.
- Designed and implemented RESTful APIs using Azure Functions, enhancing application scalability and performance through serverless architecture.
- Developed robust web scraping solutions with Azure Functions, automating data extraction processes and integrating them seamlessly with business applications.
- Successfully deployed and managed Azure Windows Virtual Desktop (WVD), significantly improving remote work capabilities and user satisfaction using automated process triggering on Web Form submission.
- Engineered Kubernetes deployments with autoscaling capabilities, achieving substantial cost savings and performance optimization across various applications.

Software Engineer - Tech Mahindra Limited, Noida   **May-2018 – Oct-2019**

Industry- Information Technology (IT) Services
Role: DevOps Engineer for Network & Cloud Automation
Responsibilities:
- Migrated on-premises hosted applications to Azure as per client requirements and application architecture.
- Developed and orchestrated the lifecycle for Azure Data engineering assets to different environments along with test cases and validation using Azure DevOps CI/CD pipelines.
- Implemented and maintained Azure Active Directory, improving user management and access control for cloud-based applications and services.
- Developed GUI based inventory tool for IOS Network Devices (cisco switches, routers etc.) and automated network change with Ansible without manual intervention based on OTRS service request.
- Configured and deployed Ticketing Tool (OTRS) onto on prem servers for Automated Network Change based on OTRS service request approval.

Cloud Engineer - Compunnel Digital (Infopro Learning), Noida   **Dec 2017 – May 2018**

Industry- Information Technology (IT) Services
Role: Cloud Engineer
Responsibilities:
- Developed and maintained high availability (HA) infrastructure in different AWS accounts for multiple clients.
- Focused on infra-automation and integration as per application requirement.
- Set up and managed CloudWatch metrics/alerts/dashboards and troubleshooting them.
- Handled System outages and resolved incidents as per the SLA.
- Automated Patch installation and management on windows & Linux servers using AWS System Manager.

I hereby certify that the information furnished above is correct to the best of my knowledge and I have not suppressed any information in any manner.

NITIN KHANEJA