Kotha Manisha Rao

Azure Data Engineer

Results-driven professional with nearly two years of experience in successful project implementation, demonstrating a robust technical background. Experienced in the design, implementation, and maintenance of the Azure infrastructure for customers. Microsoft AZ - 900, Fortinet Network Security Associate Level 1 and 2 Certified.

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📍 Calgary, Canada

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SKILLS

Azure Databricks | Azure DevOps | Azure Machine Learning | Networking Protocols | Cloud Platform Development | CI/CD Pipelines | Software Development | Software Architecture | Python | Kubernetes | Postman | IoT

EDUCATION

Masters in Computer and Electrical Engineering
Concordia University (Major in Software Engineering and Cloud Computing)
09/2021 - 06/2023   *Montreal Canada*

WORK EXPERIENCE

Cloud Engineer
LTIMindtree (Microsoft Client)
02/2024 - 07/2024   *Calgary, Canada*
Skills: Azure Databricks, Azure Devops, Networking Protocols.
Achievements/Tasks

- Diagnosed and resolved complex technical issues related to Azure resources and services, Virtual Machines, App Services, Azure SQL Database, and Azure Storage ensuring optimal performance.
- Experienced in scripting and automation using PowerShell and Azure CLI. Utilized ARM templates to create VM scale sets for streamlined deployment and management processes.
- Proficient in CI/CD tools and practices, particularly Azure DevOps, and have assisted customers in implementing and optimizing their DevOps pipelines.
- Assisted customers in implementing secure network configurations, including the establishment of private endpoints, to ensure adherence to cloud security principles and best practices.
- Implemented and maintained Azure Kubernetes Service (AKS) clusters for container orchestration, while also utilizing Azure Databricks for big data analytics and machine learning tasks within the same environment.

Customer Care Representative
Rogers TSC
09/2023 - 02/2024   *Toronto, Canada*
Skills: Risk Assessments, Technical Documentation, Customer Support.
Achievements/Tasks

- Demonstrated the ability to negotiate service-based contracts while delivering excellent customer service through prompt resolution of inquiries and issues, ensuring high customer satisfaction.
- Utilized advanced MS Office skills, especially Excel, for data analysis and reporting, contributing to informed decision-making.
- Maintained up-to-date knowledge of company products and services to provide accurate assistance to customers.

WORK EXPERIENCE

Assistant System Engineer
Tata Consultancy Services

01/2021 - 08/2021   *Bangalore, India*
Skills: Azure Services, Azure virtual machines, Azure SQL Database.
Achievements/Tasks

- Involved in deploying and configuring a HR management application leveraging Azure Virtual Machines and Azure SQL Database.
- Collaborated with clients to map their requirements and conducted in-depth analysis to finalize technical and functional specifications for Azure solutions.
- Utilized Azure SQL Database to design and optimize the database structure, ensuring efficient data storage, retrieval, and manipulation. Implemented indexing strategies and performance tuning to enhance database operations.
- Communicated effectively with stakeholders and cross-functional teams to identify efficiency improvement in business operations and business insights extraction by using data.

PUBLICATIONS

IEEE
Literature Review Of IoT Based Home Automation System
Author(s)
R Sivapriyan; K Manisha Rao; M Harijyothi
01/2020
IEEE Fourth ICISC 2020

https://doi.org/10.1109/ICISC47916.2020.9171149

CERTIFICATES

Microsoft Azure Fundamentals AZ - 900
 (06/2024 - 07/2024)
Cloud Concepts, Azure architecture and services, Azure management and governance.

Google Data Analytics Professional Certificate
 (10/2023 - 12/2023)
Database queries (SQL), Data visualization, Dashboards, R (Programming Language), Spreadsheets, Statistical Modelling.

PERSONAL PROJECTS

DevSecOps Pipeline | Deploy Netflix Clone on Kubernetes (07/2024 - 08/2024)
- Designed and implemented a Jenkins pipeline to streamline the development, testing, and deployment processes.
- Integrated Argo CD with EKS to automate the deployment process, ensuring the application is always running the latest version with minimal manual intervention.
- Applied Kubernetes best practices for security, including network policies, RBAC, and secrets management. Configured AWS IAM roles for secure access to AWS resources.

Azure Machine Learning Pipeline (01/2024 - 04/2024)
- Designed and implemented a modular and scalable Azure-based machine learning pipeline to handle large datasets in real time.
- Developed custom ML algorithms for predictive analytics, ensuring low latency and high accuracy in model inference.
- Utilized Azure Machine Learning and Kubernetes to manage and orchestrate multiple models concurrently, ensuring efficient training, inference, and monitoring processes.

Personal Expense Tracker (02/2024 - 06/2024)
- Developed a Python-based Personal Expense Tracker to manage and analyze daily expenses.
- Created visual representations of spending patterns using Matplotlib. Ensured application reliability through thorough testing and debugging.