

# Nagendra Naveen Kumar Tripurana

Interactive Engineering Portfolio: <https://nagendratripurana.com/>

Cloud DevOps, Database & Data-Platform Engineering Manager

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## Summary

Results-driven **Cloud DevOps, Database & Data-Platform Engineering Manager** along with Databases, DevOps, Backup Management & Data-Platform Infrastructure and with 16 years of experience in optimizing hybrid on-premises and Cloud database & data-platform environments, defining project governance, and driving long-term technology strategy. Proven in aligning technological initiatives with business objectives, managing IT budgets and FINOPS governance, and delivering executive-level reporting. Skilled in designing scalable, secure architectures across Azure, Alibaba, AWS, GCP, and OCI leveraging DevOps and AI/GenAI technologies to enhance operational efficiency, innovation, and enterprise performance.

## Certifications

- CDMP Associate – DAMA
- MongoDB Certified DBA Associate
- DP-300: Microsoft Azure Database Administrator
- Oracle Certified Associate (OCA) 11g & Professional (OCP) 12c
- AZ-900: Microsoft Azure Fundamentals & AZ-104: Microsoft Azure Administrator
- AZ-303: Microsoft Azure Architect Technologies & AZ-304: Microsoft Azure Architect Design
- AZ-400: Microsoft Azure DevOps Solutions & AZ-500: Microsoft Azure Security Technologies

## Skills & Expertise

### Cloud Technologies:

- Microsoft Azure, AWS, OCI, GCP, Alibaba

### Cloud Architecture Diagram & Visualization:

- Microsoft Visio, Draw.io

### ETL, ELT, Analytical and Data Processing Tools:

- Hadoop, Spark, Databricks, Tableau, Power BI, Metabase, Debezium, Airflow, Azure Synapse Analytics, Alteryx, Azure Data Factory

### Monitoring and Observability Tools:

- Azure Tools: Azure Portal, Azure Purview, Azure Application Insights, Log Analytics, Azure App Services
- Open Source and Third-Party Tools: Kibana, Grafana, Datadog, Prometheus, ELK, Dynatrace
- Cluster and Workflow Management Tools: Ambari, Offset Explorer, Yarn, Oozie
- Other Tools: SolarWinds, Salesforce ISM, Sanovi, IBM Tivoli, Studio 3T

### Development and Database Management Tools:

- SSMS, Visual Studio, OEM, MySQL Workbench, TOAD, SQL Developer
- MongoDB Compass, PgAdmin4, Azure HDInsight

### Collaboration and Project Management Tools:

- JIRA, Confluence, Remedy-Force, Service Now

### DevOps, CI/CD Tools & AI / GenAI Infrastructure & Platforms:

- Azure DevOps (CI/CD), GitHub, Azure Repos.
- Azure AI Foundry (GPT Models), Claude, Cursor, Perplexity.
- Self-Hosted & Public LLMs: Qwen (Max, Plus, VL), Ollama (Embeddings & Lightweight Models).
- Vector & RAG Infrastructure: Qdrant Vector DB, Embeddings, Semantic Search

### Relational Database Management Systems (RDBMS)

- Oracle, SQL Server, MySQL, DB2, PostgreSQL, Sybase, Hive, Amazon RDS, Yuga byte

### Non-Relational Databases

- MongoDB Atlas, Cosmos DB, Redis, HBase, DynamoDB, Neo4J Graph DB

### Operating Systems & Storage

- Unix, Windows, Linux, AIX, HP-UX, Solaris, Ubuntu, SAN, NAS

### Programming and Scripting Languages

- SQL, Pyspark SQL, Python, Node.js, PowerShell, Bash, Shell Scripting

### Containerization, Orchestration & Workflow Automation

- Docker, Kubernetes, n8n, Airflow, Azure Logic Apps

### Real-Time Streaming Solutions

- Azure Event Hub, Apache Kafka

## Experience

**Manager - Cloud DevOps, Database & Data-Platform Engineering – 02/2022 – Present**

**Wio Bank PJSC, Abu Dhabi, UAE**

- **Reporting directly to the Chief Technology Officer (CTO)**, led and mentored a team of 6 professionals in the design, implementation, and management of cloud databases, data-platform across **Wio Bank, Lending & Invest** (equities, ETFs, and digital asset trading) **Platforms**, infrastructure, data-platform and BI solutions, ensuring alignment with business goals, **technology strategy**, and **project governance frameworks** (ISO, GDPR, Central Bank regulations).
- Designed and implemented multi-cloud and hybrid cloud architectures, ensuring performance,

security, scalability, and **alignment with long-term technology strategy**.

- Collaborated with senior management and cross-functional teams to define strategic BI roadmaps, reporting KPIs, and **technology standards supporting business objectives**.
- Developed highly available **database architectures using SQL Server, PostgreSQL, MySQL, and MongoDB Atlas** with zone & geo-replication and **HA/DR strategies**, delivering clearly defined **RPO and RTO targets** aligned with **business continuity** and enterprise risk management policies.
- Owned end-to-end **data security and compliance by enforcing encryption and access controls**, implementing auditable logging and traceability for sensitive financial data, and partnering with security and compliance teams to meet regulatory, GDPR, AML, and audit requirements.
- Actively participated in all **internal audits, external regulatory audits, and data privacy assessments**, providing evidence, controls, and technical clarifications to ensure full compliance and audit readiness.
- Managed end-to-end **enterprise backup and disaster recovery solutions** across Microsoft Azure and Alibaba Cloud by **designing and implementing backup strategies for databases, virtual machines, Kubernetes workloads, and storage services**, administering Azure Backup, Recovery Services Vault, and Alibaba Cloud Hybrid Backup Recovery (HBR), automating backup operations, **ensuring backup validation, restoration testing, retention, encryption, and regulatory compliance**, while collaborating with cross-functional teams to enhance business continuity, audit readiness, and cloud resilience aligned with organizational RPO and RTO objectives.
- Established HDInsight clusters with **Apache Hadoop, Apache Spark, and Apache Kafka** to support scalable data processing platforms.
- Led end-to-end migration and modernization initiatives, including **successful migration from Cosmos DB to MongoDB Atlas**, ensuring seamless data transition, optimized performance, and improved reliability.
- Led end-to-end cloud migration programs while ensuring adherence to **project governance lifecycle**, IT standards, and regulatory compliance requirements.
- Automated infrastructure provisioning using **Terraform and ARM templates**, achieving a **40% reduction** in deployment times and improving operational efficiency and delivery timelines.
- Collaborated with cross-functional teams to design **disaster recovery (DR) and high-availability (HA) strategies** aligned to **enterprise risk controls and governance standards**.
- Deployed and managed **Azure Databricks include cluster setup**, performance optimization, and **operational governance control**.
- Utilized Azure HDInsight for cluster deployments, integrating monitoring, logging, and cost management tools to support **FINOPS objectives and financial transparency**.
- Integrated **real-time data streaming solutions using Apache Kafka and Azure Event Hub** to support business-critical systems.
- Optimized Databricks workloads and resource utilization, improving performance and cloud **cost efficiency and budget optimization**.
- Designed and implemented ETL/ELT pipelines using Azure Data Factory (ADF) and Databricks, ensuring reliable data integration aligned with **enterprise data governance standards**.
- Demonstrated expertise in Databricks Unity Catalog, ensuring **robust access control and data governance compliance** across enterprise projects.
- Applied advanced cloud-native data architecture principles supporting **scalable, secure, and cost-optimized platforms**.
- Designed and managed scalable Kafka architectures with optimized partitioning and high-throughput processing, integrated into CI/CD pipelines via Azure DevOps, ensuring **governed deployment and operational control**.
- Architected and implemented Azure services to support **enterprise IT strategy and digital transformation initiatives** & enhanced hybrid cloud solutions ensuring **secure, scalable, and compliant enterprise architecture**.
- Automated data and workflow orchestration using n8n, integrating AI, cloud, and database services for streamlined operations.
- Leveraged Azure Cloud and DevOps best practices to support **structured project delivery and lifecycle management** across cloud and on-premises environments.
- Contributed to the implementation of secure, **scalable GenAI and RAG infrastructure**, leveraging Azure AI Foundry, self-hosted Qwen and Ollama models, **Qdrant Vector Database**, and Perplexity integration, with private networking and governance controls aligned with banking security, compliance, and long-term technology roadmap.
- Automated workflow orchestration improving **operational efficiency and process optimization**.
- Designed and implemented comprehensive solutions for **monitoring application performance using Azure Monitor, Dynatrace, Datadog, Grafana, and Kibana**, ensuring proactive identification and resolution of bottlenecks
- Implemented monitoring frameworks ensuring **proactive risk identification, performance optimization, and continuous service improvement**.
- Facilitated on-prem to Azure migrations supporting **strategic cloud adoption and modernization programs**.
- Implemented zero-trust security frameworks enforcing **IT governance, compliance assurance, and security policy adherence**.
- Implemented **zero-trust security frameworks**, securing cloud workloads with IAM policies, Key Vault encryption, and SIEM integration.
- Utilized Azure-native security features such as **Key Vault, Managed Identities, and Role Based Access Control (RBAC)** to deliver secure and compliant cloud solutions.

- Architected and implemented secure hybrid cloud solutions utilizing **Azure Virtual Networks (VNETs)**, **ExpressRoute**, and Azure App Services.

## **Senior Database Site Reliability Engineer – Database, Infrastructure & Operations – 07/2018 to 02/2022**

**Al-Futtaim Private Company LLC, Dubai, UAE**

- **Led end to end Infrastructure & database migrations from on-premises data center environments to Azure & OCI Cloud** using Data Migration Service (DMS) and Distributed Availability Groups, successfully transitioning SQL databases to Azure Data Lake, Azure SQL Database, Managed Instance and Azure Databricks.
- Executed cross-platform migrations of Oracle RAC to Azure, optimizing performance for financial and healthcare workloads, while configuring MySQL PaaS and DB2 (HADR) on Azure.
- Delivered remote support for diverse RDBMS, including MSSQL Server, PostgreSQL, Oracle, MySQL, DB2, and Cosmos DB, while ensuring optimal performance and reliability.
- Developed and implemented CI/CD pipelines and managed development and QA environments across various applications, enhancing operational efficiency and deployment speed.
- Created and managed data ingestion pipelines using Azure Data Factory, T-SQL, and Spark SQL to automate ETL processes from multiple source systems into Azure Data Storage services.
- Architected and deployed solutions for on-premises, cloud-native, and hybrid-cloud architectures, focusing on data engineering, modeling, and analytics.
- Developed Spark applications using Pyspark and Spark-SQL for data processing and analysis and created dashboards in Tableau to provide actionable insights from integrated data sources.
- Championed the implementation of infrastructure as code and automation across DevOps practices, enhancing monitoring, build, and release processes for critical applications.
- **Collaborated on data center migration activities**, utilizing expertise in Microsoft Azure and OCI environments to ensure seamless transitions.

## **Senior Database Administrator - 07/2017 to 07/2018**

**Optum Global Solutions India Private Limited (A United Health Group Company), Hyderabad, India**

- Provided database administration and support for Oracle, PostgreSQL, SQL Server, MySQL, and DB2, ensuring high availability and performance.
- Implemented Oracle RAC, Data Guard, and SQL Server Always On for high availability and disaster recovery.
- Managed database backup, recovery, and disaster recovery using Oracle RMAN across Oracle, SQL Server, and MySQL environments.
- Performed database maintenance, performance tuning, and troubleshooting to optimize system health.
- Upgraded and patched Oracle and SQL Server environments, including major version migrations.
- Implemented Transparent Data Encryption (TDE), auditing, and security controls to meet SOX and HIPAA compliance.
- Administered MySQL databases, including installation, replication, performance tuning, and high availability.
- Monitored database health using Oracle Enterprise Manager, AWR, ASH, and ADDM, resolving performance issues proactively.
- Collaborated with engineering teams to design database solutions and implement schema enhancements.
- Developed and maintained maintenance plans, including index optimization and data integrity checks.

## **Database Specialist – 12/2009 to 07/2017**

**IBM India Private Limited, Hyderabad, India**

- Provided remote support for Oracle, PostgreSQL, SQL Server, DB2, MySQL, and Sybase, ensuring high availability and performance.
- Collaborated with onsite teams on incident, problem, and change management.
- Installed, upgraded, and administered SQL Server 2008 R2, 2012, and 2014 environments.
- Migrated SQL Server 2008 to SQL Server 2012 on Windows Server 2012.
- Configured and managed two-node Active/Passive clusters for high availability.
- Implemented SQL Server Always On Availability Groups for high availability and disaster recovery.
- Configured Log Shipping and Database Mirroring and participated in DR testing.
- Performed Point-in-Time Recovery (PITR) and database restores during disaster scenarios.
- Developed SSIS packages and SSRS reports for data integration and reporting.
- Managed backup and recovery for Oracle, SQL Server, and DB2 using RMAN, Data Guard, and SCN-based incremental recovery.

## **Education**

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- **Bachelor of Technology – 2009, Jawaharlal Nehru Technological University Kakinada, India**