Megh Patel

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Summary

Detail-oriented and certified Data & Cloud Engineer with proven experience in building, optimizing, and maintaining big data pipelines across hybrid cloud environments. Certified Data & Cloud Engineer with hands-on expertise in Databricks (Spark, Delta Lake, Unity Catalog), Microsoft Fabric, and AWS data platforms (Redshift, S3). Proven experience developing scalable data pipelines, optimizing real-time streaming workflows, and automating data operations using Airflow and Databricks Workflows. An 10x Microsoft Azure-certified professional passionate about delivering robust cloud solutions.

Technical Skills

Languages: Python, Java, JSP, C#, C++, Swift, Node.js, HTML5, CSS, JavaScript, PHP, Dart, Terraform, Ansible
Web Frameworks: ASP.NET, Angular, Flask, AngularJS, React
Cloud Computing: Microsoft Azure, Amazon AWS, GCP, Azure DevOps
Database: Azure Cosmos DB, AWS RDS, AWS Dynamo, MSSQL, Oracle, MongoDB
Tools: Microsoft Fabric, Synapse Analytics, JIRA, SonarQube, Docker, Kubernetes, Redshift, Databricks
Visualization Tools: Tableau, Power BI, Cognos Analytics
Standards & Practices: SDLC, CI/CD pipelines, Audit/Compliance alignment, RBAC, Key Vault
Data Tools: Apache Spark, Hive, Hadoop, Informatica, Kafka, Azure Data Factory, Cloudera, Synapse Analytics

Experience

Data Management Analyst Mar 2024 – Dec 2024
Agriculture and Agri-Food Canada *Toronto, ON*

- Built and optimized Spark-based pipelines in Databricks using Scala and Python, improving processing efficiency for large-scale datasets.
- Integrated Delta Lake and Delta Sharing to streamline secure, scalable data exchange across organizational boundaries.
- Administered Unity Catalog for structured metadata governance and implemented Databricks Workflows to enhance operational automation.

Full Stack Developer Jan 2022 – Dec 2022
Dhyey Consulting Services Pvt. Ltd. *Gujarat, India*

- Orchestrated the deployment of Infrastructure-as-Code (IaC) solutions using Terraform on Azure, cutting manual provisioning efforts by 40%.
- Architected a microservices-based cloud application with ASP.NET, AngularJS, and Kubernetes (AKS), improving system scalability and security.
- Streamlined CI/CD pipelines in Azure DevOps and GitHub Actions, embedding security automation, policy enforcement, and containerized deployments, accelerating release cycles by 30%.

Cloud Developer Oct 2021 – Dec 2021
Microsoft *Virtual, India*

- Engineered Terraform modules for Azure Kubernetes Service (AKS), virtual networks, and cloud storage, reducing provisioning time by 50%.
- Designed Kubernetes Operators and Custom Resource Definitions (CRDs) to automate self-healing, resource allocation, and scaling for cloud-native applications.
- Implemented enterprise security frameworks using Azure Key Vault, Role-Based Access Control (RBAC), and Web Application Firewall (WAF) to enhance Zero Trust compliance.

Software Developer Apr 2021 – Jun 2021
Immaculate IT Solutions Pvt. Ltd. *Maharashtra, India*

- Developed high-performance, cloud-native APIs using ASP.NET and Node.js, leveraging containerized microservices in Kubernetes (AKS) for a 30% performance boost.
- Automated data quality checks using Delta Live Tables and supported real-time analytics via Structured Streaming and Airflow.
- Optimized security protocols in CI/CD pipelines, integrating SonarQube for code quality, Azure Security Center for vulnerability detection, and automated compliance monitoring.

Education

Master of Applied Computing Jan 2023 – Aug 2024
University of Windsor *Windsor, ON*

Bachelor of Information Technology Aug 2018 – May 2022
Navrachana University *Gujarat, India*

Certifications

Microsoft Azure: Solution Architect Expert (AZ-305)
Microsoft Azure: Power BI Data Analyst Associate (PL-300)
Microsoft Azure: Fabric Analytics Engineer Associate (DP-600)
Microsoft Azure: Administrator Associate (AZ-104)
Microsoft Azure: DevOps Solutions (AZ-400)
Microsoft Azure: Developer Associate (AZ-204)
Microsoft Azure: Data Fundamentals (DP-900)
Microsoft Azure: Power Platform Fundamentals (PL-900)
Microsoft Azure: Fundamentals (AZ-900)
Microsoft Azure: AI Fundamentals (AI-900)

Academic Projects

Data-Driven Analysis: Skills Development and Labour Market Trends May 2023 – Jul 2023

- Led a team of 4 to analyze 500,000+ labor market records, developing a MongoDB-based system and utilizing Python for comprehensive analysis.
- Enriched data accuracy by 15% using MongoDB, and lowered data processing time by 20% with perfected Python scripts.

Watchful Eye: Monitoring System for Autistic Children Jan 2023 – Mar 2023

- Supervised a team of 8 in the creation of a cross-platform mobile and watch application, leveraging ML models to monitor children's health in real-time.
- Incorporated Swift, Flutter, AWS, and Python, reducing development time by 25% by streamlining the integration of WatchOS and HealthKit libraries.

Abstractive Text Summarization: NLP Oct 2021 – Dec 2021

- Amplified NLP model accuracy by 17% by refining text summarization algorithms using Huggingface and Transformer libraries.
- Deployed the model on Google Colab, reducing computational costs by 30% while maintaining high performance.

Crowd Detection: Raspberry Pi and OpenCV Sep 2019 – Nov 2019

- Boosted detection accuracy by 15% by designing a Raspberry Pi camera-based crowd detection system, ensuring real-time monitoring of crowded spaces.
- Optimized system performance, reducing latency by 10% by refining OpenCV algorithms for faster image processing and detection.

Intruder Alert System: IoT Jul 2019 – Sep 2019

- Developed an IoT-based intruder alert system using Raspberry Pi and PiCamera, increasing security monitoring effectiveness by 25%.
- Integrated the system with IFTTT API, automating email alerts along with captured images, reducing manual monitoring by 30%.

Automated Music Suggestion based on Mood Apr 2019

- Led a team of 4 in developing a recommendation model that analyzes various music parameters to suggest songs based on the user's mood.
- Escalated recommendation accuracy by 20% by refining the model using Python, PyTorch, Keras libraries and Microsoft Azure ML Studio.