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Kushagra Singh

Automation Engineer (Data & Integration Focused)

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Portfolio: MathtoData.com
github.com/gitkushagra

Automation Engineer with 3 years of experience designing data-centric automation solutions across SQL Server, APIs, and Power Platform. Specialized in building high-volume ETL workflows, optimizing SQL performance, and implementing CI/CD-driven deployments. Experienced in handling large datasets using Python, integrating multi-system APIs, and developing reliable, production-grade automation supporting business-critical operations.

Skills

Automation & Workflow	Power Automate (Cloud Flows, Desktop Flows), Power Apps (Canvas Apps), Office Scripts, SharePoint Online, Dataverse
Programming & Scripting	Python (data processing, transformation, automation support), TypeScript (API data transformation, ETL logic), SQL (advanced querying, stored procedures)
Data Engineering	SQL Server, Stored Procedure Optimization, Query Performance Tuning, Data Modeling & Schema Design, ETL Pipeline Development, Data Ingestion (JSON, CSV, API sources)
Integration & APIs	REST API Integration, HTTP Connectors, JSON Parsing & Transformation, Multi-System Data Synchronization
Environments	Version Control & Automation Scripts, CI/CD Pipeline Implementation, Dev/Stage/Prod Deployment Management
Monitoring & Reliability	Production Flow Monitoring, Automated Logging & Alerts, Error Handling & Retry Logic
Reporting	Power BI Report Builder (Paginated Reports), Data Validation & Reporting Support
Governance	Access Validation Support, Environment Governance Awareness

Technical Experience

AUTOMATION ENGINEER / INSURANCE (USA) — **June 2023 — Present**
Coforge Limited — *Greater Noida, Uttar Pradesh*

- Optimized SQL Server stored procedures and query performance for high-usage systems, improving data retrieval speed by 30% across datasets containing 500K–2M+ records.
- Designed and deployed database solutions across Dev, Stage, and Prod environments, supporting automation workflows executing 300–800+ runs daily.
- Built automated data ingestion pipelines using SQL, JSON, and CSV inputs, processing 100K+ records per day and significantly improving data consistency and reliability.
- Developed CI/CD pipelines for version-controlled deployment of SQL objects, TypeScript scripts, and automation workflows, reducing release effort and minimizing production risks.
- Engineered end-to-end ETL pipelines using Power Automate and TypeScript to extract and transform multi-format API data into structured SQL tables, eliminating 99% of manual processing for recurring business reports.
- Integrated 5–10+ external and internal APIs for automated data synchronization, validation, and transformation across systems.
- Migrated 20+ legacy desktop automations to cloud flows, reducing maintenance overhead and improving execution scalability and stability.
- Implemented real-time monitoring and alerting mechanisms for production automation, tracking failures across hundreds of daily executions and improving incident response time.
- Developed PowerApps Canvas applications used by 50–150+ business users for CRUD operations on operational datasets.
- Used Python for large-scale data processing, cleansing, and transformation tasks involving 200K–1M+ records per run to support downstream automation workflows.
- Validated paginated reports using Power BI Report Builder to ensure accuracy for data pulled from high-volume SQL sources.
- Participated in code reviews, requirement analysis, Agile planning, and QA validation to ensure stable and production-ready automation releases.

Education

Bachelor of Technology in Information Technology, *Galgotias College of Engineering (AKTU)* — 7.48 CGPA — 2023
Class 12th, *St. Mary's Sr. Sec. School (CBSE)* — 77.2% — 2019
Class 10th, *St. Mary's Sr. Sec. School (CBSE)* — 10 CGPA — 2017

Professional Certifications

Microsoft Certified Power Platform Fundamentals (PL-900) [Verify] — Fall 2023
Microsoft Certified Azure Fundamentals (AZ-900) [Verify] — Early 2025
Google Cloud Big Data and Machine Learning Fundamentals [Verify] — Fall 2020
Google IT Automation with Python [Verify] — Fall 2020
Introduction to Python [Verify] — Mid 2020