

Rabih RAHBANI

Senior SQL Server DBA & Data Engineer

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Summary

Senior SQL Server DBA & Data Engineer with 20+ years of experience designing, securing, optimizing, and automating high-availability database environments across enterprise, government, and cloud platforms. Expert in SQL Server performance tuning, replication, Always On Availability Groups, and log shipping, with strong experience in proactive monitoring, automation, and disaster recovery strategies.

Skilled in building and orchestrating ETL pipelines using Python, Apache Airflow, and Docker to support scalable, reliable, and maintainable data workflows. Experienced in containerized deployments, workflow scheduling, monitoring, and operational automation across development and production environments.

Strong background in dimensional modeling, ETL architecture, and Power BI reporting, bridging traditional DBA expertise with modern data engineering and analytics. Recognized for implementing audit-friendly workflows, centralized monitoring solutions, symbolic status reporting, and collaborative DevOps integration focused on reliability, scalability, and continuous improvement.

Core Skills

- High Availability & Disaster Recovery: Always On Availability Groups, Transactional & Peer-to-Peer Replication, Log Shipping, backup and recovery strategy implementation
 - Performance Tuning & Optimization: Index optimization, execution plan analysis, query tuning, Extended Events, DBCC diagnostics, proactive performance monitoring
 - Automation & Scripting: PowerShell scripting, Python automation, T-SQL development, SQL Server Agent Jobs, Maintenance Plans, automated operational workflows
 - Monitoring & Observability: Custom alerts, symbolic status reporting, disk/memory utilization tracking, centralized audit databases, ETL and workflow monitoring with Apache Airflow
 - Security & Compliance: HIPAA-compliant data masking, access auditing, secure backup management, encrypted backup transfers to AWS S3
 - Cloud, Containers & DevOps: Azure SQL, Docker containerization, CI/CD pipelines, Microsoft Teams integration, environment automation and deployment consistency
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- ETL & Data Engineering: Python + SQL Server ETL pipelines, Apache Airflow orchestration, staging architecture, dimensional modeling, surrogate key management, fact table loading, data validation, workflow scheduling and automation
 - Reporting & Business Intelligence: Power BI dashboards, SSRS reports, SSIS packages, analytical reporting and operational KPI tracking
 - Application Development: .NET Core, ASP.NET MVC, Entity Framework, VB.NET, DevExpress
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Certifications

- PL-300: Power BI Data Analyst
- HIPAA Certified
- ISO 9001:2015 Internal Auditor
- Microsoft Certified: MCP, MCSD, MCDBA

Professional Experience

Senior DBA – Inspire Innovations (Remote, USA) | Apr 2024 – Dec 2024

- Engineered a HIPAA-compliant data masking solution, strengthening privacy controls in development and test environments
- Administered log shipping topologies and built automated health check routines, reducing manual monitoring effort by 40%
- Implemented point-in-time recovery strategies and automated index maintenance, improving database resilience and query performance
- Collaborated with cross-functional teams through Azure DevOps pipelines and Microsoft Teams, accelerating deployment cycles and issue resolution
- **Environment:** Azure SQL Server 2019, PowerShell, T-SQL, Azure DevOps

Senior DBA & Software Engineer – LibanPost (Baabda, Lebanon) | 2022 – Present

- Designed and deployed a .NET Core application used daily by postal retail offices, streamlining transaction workflows and improving reliability
- Configured transactional and peer-to-peer replication topologies to ensure high availability and data consistency across distributed systems
- Automated archiving, monitoring, and backup verification routines, reducing manual intervention and strengthening disaster recovery readiness
- Engineered a full ETL pipeline and star schema data warehouse (Python + SQL Server), including dimensional modeling, surrogate key management, fact table design, and Power BI validation — bridging DBA expertise with modern data engineering and analytics enabling real-time reporting and operational insights

- Implemented SQL Agent jobs, monitoring tools, and Extended Events for proactive database health checks across postal offices
- Diagnosed and repaired corrupted databases under downtime conditions, restoring service continuity and minimizing operational disruption
- **Environment:** SQL Server 2019, .NET Core, SSIS, Power BI, Python, SQL Agent, Extended Events

Senior DBA & Software Developer – Top Speed Delivery (Beirut, Lebanon) | 2020 – 2022

- Developed a real-time broadcast tool for order tracking, improving visibility and responsiveness across retail operations
- Automated delivery management workflows using Entity Framework (EF) and MVC, reducing manual effort and streamlining logistics
- Designed and optimized SQL Server databases and queries, enhancing performance and reliability for transactional workloads
- Created Power BI reports to deliver operational insights and support data-driven decision making
- **Environment:** SQL Server 2016, VB.Net, DevExpress, Power BI

Senior DBA & Software Developer – UNDP Access to Justice (Beirut, Lebanon) | 2013 – 2020

- Collaborated with a French development team to validate judicial software, ensuring compliance with local requirements and international standards
- Built a court analytics system to track case volumes and judge performance, improving transparency and resource allocation across the judiciary
- Developed middleware linking the Ministry of Justice (MOJ) and Ministry of Finance, strengthening fraud detection and eliminating duplicate payments
- Automated procedures for the Judicial Inspection and Training Institute, streamlining workflows and reducing administrative overhead
- Delivered training sessions for MOJ clerks and judges on system usage, increasing adoption and operational efficiency
- **Environment:** SQL Server 2012, VB.Net, Crystal Reports, IIS, PHP

Database Administrator & Software Developer – Mecanique (Hadath, Lebanon) | 2005 – 2013

- Designed and implemented a vehicle inspection workflow and smart card infrastructure, modernizing compliance tracking and service delivery
- Managed merge replication across remote inspection sites, ensuring data consistency and availability in distributed environments
- Developed HR and procurement systems to streamline administrative processes and improve operational efficiency
- Created performance monitoring tools for inspector evaluation, enhancing accountability and service quality
- **Environment:** SQL Server 2008, VB.Net, VB6, Crystal Reports, IIS, PHP

Software Developer Internship – OTCex (Paris, France) | 2004 (6 months)

- Built financial data conversion and XML redistribution tool
- Developed web interface for data visualization using C++, Java, XML

Software Developer – Automation & Computer Technologies (Beirut, Lebanon) | 2001 – 2003

- Developed Health Web Portal and MIS for Ministry of Health
- Built Electronic Document Management System with encryption
- Co-created secure Home Loan portal with integrated payments
- Designed SMS-based chat application for mobile users
- **Environment:** VB.Net, ASP, SQL Server

Key Projects

- **ETL & Data Warehouse Solution (2025):** Designed and implemented a Python + SQL Server ETL pipeline, dimensional modeling, surrogate key management, and fact table design. Validated reporting with Power BI, enabling multi-charge transaction analysis and audit-friendly workflows.
- **HIPAA-Compliant Data Masking Tool (2024):** Built secure masking routines for Inspire Innovations, strengthening privacy in dev/test environments.
- **Top Speed Delivery Platform (2021):** Developed a real-time broadcast tool for order tracking and automated delivery management workflows using EF and MVC. Designed optimized SQL Server databases and created Power BI reports, improving logistics visibility and reducing manual effort by 30%.
- **Court Analytics System (2015):** Developed judicial analytics dashboards to track case volumes and judge performance, improving transparency and resource allocation.
- **Vehicle Inspection Workflow (2008):** Implemented smart card infrastructure and replication across inspection sites, modernizing compliance tracking.

Education

- 2007: Software Engineering Diploma – CNAM, Paris
- 2004: Master's Degree – Aix-Marseille University, France
- 1999: Bachelor's Degree in Computer Science – Lebanese University

Languages

- English – Fluent
- French – Fluent