

SAIVIHARI REDDY BANDI

Denton, TX — Remote (USA)

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PROFESSIONAL SUMMARY

Senior Data Engineer with **5+ years** of expertise building **enterprise-scale data pipelines** and **cloud architectures**. Demonstrated success in migrating **large-scale datasets**, implementing **CI/CD automation**, and optimizing **SQL performance** within regulated government and commercial environments. Adept at delivering secure, analytics-ready platforms using **Azure Data Factory**, **Python**, and **T-SQL** while ensuring data quality and regulatory compliance.

TECHNICAL SKILLS

Programming: Python, T-SQL, SQL, PowerShell

Cloud & Data Platforms: Azure Data Factory, Azure SQL Database, SQL Server, PostgreSQL, MySQL, Azure Blob Storage

Data Warehousing: Snowflake, Google BigQuery

Analytics & Visualization: Power BI, Tableau, Excel, Power Query

DevOps & Automation: Azure DevOps, Git, CI/CD Pipelines, Infrastructure as Code

Performance Monitoring: Azure Monitor, SQL Server Profiler, Query Execution Plans

Microsoft Certified: Azure Data Engineer Associate (DP-203) and Azure Data Fundamentals (DP-900)

PROFESSIONAL EXPERIENCE

Deloitte

July 2023 – Present

Project Delivery Senior Analyst — Client: State of Michigan – Unemployment Insurance Agency

Remote

- Architected and automated **CI/CD pipelines** for **50+ data workflows** supporting **1.5B+ records**, reducing deployment cycles from 3 days to 4 hours (**88% reduction**) and achieving **99.7% uptime** through continuous monitoring.
- Implemented **infrastructure automation** using **Azure DevOps** and **PowerShell**, provisioning cloud resources across Dev, UAT, and Prod with **zero-downtime deployments**.
- Built **Python automation suite** dynamically generating **500+ SQL scripts** for data validation, index validation, constraint validation, and obfuscation validation across environment refreshes, reducing operational effort from **16 hours to 45 minutes**.
- Optimized **SQL workloads** through execution plan analysis, improving compute efficiency by **40%** and reducing Azure costs by **\$12K monthly**.
- Developed **40+ orchestrated ETL pipelines** using **Azure Data Factory** for incremental and full-refresh patterns, integrating legacy systems with cloud architecture.
- Implemented **security controls** including **PII masking**, **RBAC** across 8 Azure SQL instances, and audit logging, maintaining **SOC 2 compliance**.
- Led **incident management** and root cause analysis for production issues, establishing runbooks for 24/7 operations and restoring service within **2-hour SLA**.
- **Technologies:** Azure Data Factory, Azure SQL, Azure DevOps, Python, T-SQL, PowerShell, Azure Monitor, CI/CD, IaC

Think Champ Private Limited

June 2018 – July 2021

SQL Developer / Data Engineer

Tirupati, India

- Developed **data pipelines** for EdTech platform serving **10,000+ students**, integrating **PostgreSQL** and **MySQL** databases with **Python-based ETL workflows**.
- Built **50+ Python scripts** and **T-SQL stored procedures** for automated data processing, implementing business logic for student enrollment and grade calculations.
- Designed normalized database schemas with **40+ tables** across PostgreSQL and SQL Server, optimizing query performance through strategic indexing.
- Created **data quality checks** using **Python (Pandas)**, processing **50K+ daily transactions** with automated validation and error detection.
- Optimized database performance reducing report generation time by **93%** (30s to 2s) for instructor dashboards.
- **Technologies:** Python, SQL Server, PostgreSQL, MySQL, T-SQL, Pandas, ETL Pipelines, SSMS

EDUCATION

University of North Texas

Denton, TX

Master of Science in Computer Science — **GPA: 4.0/4.0**

Aug 2021 – May 2023

PROJECTS

FIFA World Cup Statistical Analysis (2022): Developed **Python-based data pipelines** and interactive **Tableau dashboards** to analyze multi-year FIFA match and player data, engaging **1,000+ users** with actionable performance insights.

KEY ACHIEVEMENTS

- Delivered a time-critical client ad hoc data solution at Deloitte, reducing a typical **3-month analysis and delivery timeline to 2 weeks** with **100% accuracy** by implementing dynamic SQL transformations with automated validation and error handling.
- Earned multiple **Outstanding Performance Awards** and achieved **promotion to Senior Analyst within two years** for consistent high-impact delivery.
- Recognized as a **Best Team Player** for strong collaboration, ownership, and mentoring across data engineering initiatives.
- Served as a **Teaching Assistant** (Master's), providing technical instruction and mentoring that led to a **100% student pass rate**.