MATT SCHULTZ

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Professional Summary:

Data engineering professional with multiple years of experience coordinating across diverse organizations to deliver complex projects in banking, utility, healthcare, and higher education settings. Background in systems design and development, data warehousing and executive reporting, and stakeholder management.

Core Competencies:

- **Data Engineering:** Extract, Transform, and Load (ETL) pipelines, legacy data migration and process automation, data warehousing, Key Performance Indicator (KPI) reporting and dashboards.
- **Stakeholder Coordination and Systems Design:** Requirements gathering, organizational/vendor liaison, cross-functional team coordination, end-to-end solution architecture, and vended system integration.
- **Technical Proficiencies:** ArcGIS, T-SQL, SAS, SQL Server Integration Services, Tableau, SAP BusinessObjects, Google (Looker) Data Studio, Microsoft Power BI, SAS Visual Analytics, Git, Docker, Python, Ruby/Rails, PHP/Laravel, and JavaScript (React, Redux).

Career History & Accomplishments:

Data Integration Developer, Civic Federal Credit Union
March 2025 – Current

- Develop ETL pipelines for mortgage data following operational independence from State Employees' Credit Union and the transition to a new core banking system.
- Build out data warehouse focused on analytical reporting from Fiserv DNA banking platform transactional data.
- Improve speed and performance of existing pipelines by optimizing SQL queries and implementing incremental data loading strategies.

Senior Systems Analyst, ElectriCities of NC
May 2024 – March 2025

- Automated data collection to improve the auditing of municipalities' electrical utility billing systems.
- Served as liaison between municipalities and commercial software vendors.
- Assisted in monitoring and outreach efforts for municipalities' annual Energy Information Administration (EIA) Form 861 federal compliance reporting.

Senior Developer, Duke University School of Medicine, Office of Academic Solutions & Information Systems
December 2022 – May 2024

- Built web services for tracking research effort across both the university and the health system.
- Integrated new tools, including GitLab CI/CD and the OpenShift platform, into existing DevOps workflows for enhanced developer productivity and application reliability.
- Onboarded and mentored junior developers.

Developer, North Carolina State University, Enterprise Application Services
June 2020 – December 2022

- Designed tooling to migrate legacy data and enable ongoing data transfer from internally developed applications into the university's new vendor-developed research data management system.

- Built initial set of ETL pipelines in SAS Data Integration Studio to capture enterprise data for operational work and reporting, moving from a highly manual process to a series of automated and monitored jobs.
- Retained as consultant to provide customized enhancements as additional modules of the research data management system are brought online.

Data Analyst/Developer, Duke University School of Medicine, Office of Academic Solutions & Information Systems
July 2015 – June 2020
- Built Ruby on Rails web services for data sourced from multiple Duke systems, including clinical trials, research finance, and conflict of interest management.
- Served as lead data analyst on the successful multi-year migration of existing enrollment data into a single clinical trial management application.

Business Analyst, SBG Technology Solutions
December 2012 – June 2015
- Assisted project managers in directing multiple healthcare IT projects for the federal government.

Research Associate, TransAnalytics
December 2010 – December 2012
- Developed and maintained interfaces, queries, and reports in Access and Excel for analyzing traffic fatalities from a nationwide geographic database.

Education and Certifications:

North Carolina State University
Bachelor of Science in Biochemistry

ITIL Foundation Certificate in IT Service Management