

## SUMMARY

8+ years experience, Certified Data Engineer. Adept at building & maintaining integration and analytics/reporting infrastructure. Knowledge in developing & testing architecture for data quality. Highly skilled in creating and improving scalable data pipelines, building API integrations, and accelerating performance of new and existing ETL/ELT processes.

## PROFESSIONAL EXPERIENCE

### Data Engineer

Apr '19 - Present

#### Wisconsin Department of Employee Trust Funds

Madison, WI

A State Government Agency, with 400 employees. Operating as a senior engineer on a team of 15. Taking lead from Data Management Bureau Director and Enterprise Architect. Coordination with Project Manager(s). Using Agile project methodology on Jira platform.

- **Successfully implemented data pipelines and platforms**, encompassing storage systems, data ingestion processes, and **data governance** policies
- Proficient in **writing and reviewing code** for pipelines, leveraging tools like **Alteryx, Python, and Azure SQL**
- Developed robust **ETL processes** for data integration, enhancing validation and synchronization capabilities
- Acted as a pivotal contributor in shaping the **data roadmap**, ensuring optimal value/cost ratio for diverse data sets
- Mentored and directed developers on various projects, emphasizing **leadership** and capacity building within the growing organization
- Established and optimized **data flows**, utilizing **Python** with **Azure Functions** for integrations and automating deployment processes
- Demonstrated proficiency in **CI/CD pipeline creation**, harnessing **Github** for streamlined environment deployments
- Took charge of project deliverables, spearheading multiple various projects from reporting pipeline to integration efforts
- Pioneered a centralized hub for all enterprise data (**Data Warehouse/Data Lake**), fostering accessibility for modernization efforts
- Skillfully designed, configured, and launched a new **Master Data Management (MDM) system**
- Orchestrated process automation and task scheduling, leveraging enterprise **Control-M** and Python scripting for job management on Alteryx server
- Crafted and refined **Tableau Dashboards** for diverse reporting needs, backed by comprehensive backend systems
- Conceptualized and shaped the **data lake infrastructure**, determining aspects like database design, table structures, and data flows
- Championed **SDLC processes with Git**, aligning ETL and dashboard development with deployment practices
- Steered the **evaluation, adoption, and infrastructure setup of Alteryx**, while leading trainings and demos for both Alteryx & Tableau

### Business Intelligence Analyst/Developer

May '15 - Apr '19

#### Acoustic Ceiling Products

Neenah, WI

A private manufacturing company with 200 employees. Was the sole BI personnel. Where the end to end development was learned. Direct report to CEO

- **Designed/implemented ETL and ELT pipelines**, centralizing operational data into a **Snowflake data warehouse** from diverse sources
- Demonstrated skill in **writing and reviewing code** for the automation of manual processes
- Showcased expertise in developing and maintaining **cloud-based infrastructure on AWS and Snowflake**, with a focus on designing scalable solutions
- Instituted rigorous **tests and validations** for data pipelining code, enhancing server monitoring and alerting capabilities using **AWS CloudWatch** service
- Leveraged **DevOps** practices, utilizing tools such as **AWS CLI, AWS Console, and AWS CloudFormation** to automate the deployment of infrastructure (IaC)
- Engaged with product stakeholders, ensuring regular communication and promptly addressing redesign requests
- Spearheaded the adoption and utilization of **Demandcaster** for supply-chain planning and forecasting, complemented by the creation of insightful dashboards
- Managed automated backups and dynamically scaled **AWS resources** based on utilization, ensuring system reliability and responsiveness
- Functioned as a **Tableau Server Admin and Viz Developer**, overseeing data source deployment and crafting various dashboards from the central data warehouse
- Transformed manual processes into automated workflows, utilizing **Alteryx integrations** to connect previously isolated systems
- Orchestrated **cloud-based infrastructure** deployments using a suite of AWS tools, ensuring system robustness and efficiency
- Maintained server health and responsiveness through comprehensive monitoring via **AWS CloudWatch** and utilized notification services for reporting
- Fostered continuous communication with product owners, aligning engineering efforts with business requirements and ensuring timely data delivery

## KEY SKILLS

Data Pipelines • Data Lakes Design/Build/Scale • API (SOAP, REST) Integrations • Python • Alteryx Server & Tableau Server Administration • Infrastructure as Code • Data Modeling • Infrastructure Design • ETL Framework Design • Report & Dashboard Building • QA Testing Framework Design & Implementation • Automation of anything • Googling • AI Prompt Building

## TECHNICAL SKILLS

Languages: SQL, Python, .NET, C#, C++, R, Command Line/Terminal

ETL Tools: Python, SSIS, Alteryx, Talend, Mulesoft

Cloud: AWS, Azure

Databases: Any RDBMS, Snowflake, NoSQL

Scheduling: Airflow, Control-M

Visualization: Tableau, PowerBI

OS: UNIX, Linux, Windows

Special Powers: Figuring stuff out

Hobbies: Aquaponics, Learning ML/AI, utilizing AWS and Azure for various side projects

## CERTIFICATION

- Certified Solutions Architect Associate | AWS | 2023
- Microsoft Azure Fundamentals, AI Engineer Associate | Azure | 2023
- SnowPro Core | Snowflake | 2023
- Alteryx Designer Advanced, Server Administration, Server Implementation | Alteryx | 2023
- Tableau Server Certified Associate, Desktop Certified Associate | Tableau | 2018