

Stephen Wallace

Principal Cloud Data Engineer and Team Lead

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Slalom Consulting

2018 – Present

Principal - Data & Analytics

2022 – Present

Overview:

- Successfully planned and executed \$1M+ client engagements as an advisor, architect, and engineer.
- Developed and managed teams of data engineers

Project Highlights:

- CPG Client - Led team to build new data services and migrate legacy data and APIs to modern, serverless architecture
 - Used test-driven development to create automated ETL processes with **Pyspark and AWS Glue**
 - Migrated large datasets from MySQL into new platforms (S3, Snowflake, DynamoDB, AWS Cognito User Pool) using Spark
 - Designed efficient back-end data models in **DynamoDB**, converting from conventional relational schemas
 - Deployed and secured APIs using **AWS Lambda and API Gateway**
 - Configured and implemented IaC and CI/CD solution using **Terraform Cloud and Bitbucket Pipelines**
 - Conducted sessions with client to gain buy-in on vision for system architecture and team responsibilities
 - Oversaw 10 other engineers to provide technical expertise, architecture recommendations, and other support
- Biotech Client - Created scalable processes for OLTP backfill and data validation with **SQLAlchemy and Kubernetes**
 - Process ran trillions of updates against high-performance production system (**Postgres on Cloud SQL**) without requiring downtime or introducing performance degradation
 - Deployed on GKE with configurable parameters to modify parallelism and batch size on executors
 - Implemented queuing system that allowed for restartability and addition of additional executors without lock contention
- Insurance Client - Architected and built Data Warehouse and ELT processes using **Snowflake and dbt**
 - Created CI/CD process for deploying system configuration, DB objects, and roles using **Terraform and Jenkins**
 - Built custom SCIM solution with **Python** and identity provider APIs to allow seamless management of permissions through active directory groups
 - Designed easy-to-use ingestion and export tools using **AWS Lambda** (event handling) and stored procedures
 - Migrated manual, undocumented data processes into dbt Cloud, and established dataops practices for the team
 - With the new platform, non-engineers were empowered to load, process, and share TB-sized datasets, and eliminate compute and storage costs from legacy systems
- Led data engineering teams formally, in and out of project work
 - Defined feature roadmaps, drove requirements, and helped newer engineers with technical development
 - Conducted performance reviews and created development plans, while providing mentorship around functional skills and company operations

- Credit Reporting Client - Data Migration Initiatives
 - Leveraged Google Maps API, Pytorch embedding models, fuzzy matching, and data standardization to match customer entities across disparate systems - prevented weeks of manual review work and allowed team to meet deadline
 - Migrated legacy data processes from SSIS and SQL Server to **Airflow** and **Google BigQuery**
 - Trained client team on Google Cloud tools and advised technical teams on data engineering best practices
- CRM Startup Client - Serverless, real-time data replication
 - Built event-driven ETL process using AWS Lambda to process change data records from OLTP systems and sync them with **Redshift** - this allowed the customer to gain deeper analytical insights about their customers

Centene Corporation

2013 – 2018

Data Scientist I

2016 - 2018

- Built predictive models to automate claims processing and predict member behavior using XGBoost and R
- Created processes for deploying ML models into production

Data Analyst I/II

2013 - 2016

SELECT SKILLS

Languages: Python, SQL, R, Shell

DevOps: Terraform, Jenkins, Docker

Data Warehouse: BigQuery, Snowflake, Redshift, Teradata

ETL/ELT: Airflow, dbt, Spark, AWS Glue

Cloud Platforms (General): AWS, Google Cloud

OLTP: DynamoDB, PostgreS

Education

MBA

Washington University in St. Louis - Olin Business School

2021

B.S. Systems Science and Engineering

Washington University in St. Louis

2013