JESS JOHNSON

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SUMMARY

Highly skilled, performance-driven Data Engineer with 15 years of experience in designing, implementing, and optimizing scalable data solutions. Proven track record in cross-functional collaboration and timely project delivery. Expertise in large-scale data processing pipelines and driving actionable insights for business growth. Strong background in data modeling, database design, and ensuring data integrity and security. A strategic thinker who is passionate about innovation and leveraging emerging technologies for data-driven decision-making.

AREAS OF EXPERTISE

Data Engineering | Data Architecture | Data Analysis | Quantitative Analysis | Exploratory Data Analysis | Data Wrangling | Data Pipeline Architecture and Engineering | Data Warehousing | Data Modeling | Business Intelligence | Business Analytics | Data Visualization | Data Quality | Data Storytelling | Software Development | Agile Project Management | Team Leadership | Workflow Optimization

TECHNICAL PROFICIENCIES

Languages: SQL, Python, Kusto (KQL), DAX, Markdown, JSON, C#

Tools/Services: Azure Data Factory, Azure Synapse Analytics, Power BI, Azure Functions, Azure Key Vault, Azure Logic Apps, Azure Machine Learning Studio, Azure Data Lake, Azure SQL Database, PostgreSQL, Visual Studio Code, Jupyter Notebooks, Git, Microsoft SQL Server, Microsoft SQL Server Integration Services, Apache Kafka, Apache Spark, Oracle

CAREER EXPERIENCE

Microsoft, Redmond WA (Remote)
10/2022 – Present
Data Engineer

Leveraged expertise in Data Engineering to significantly reduce processing time for the Azure Data Center telemetry data lake. Designed and implemented highly scalable big data solutions using Python, Apache Spark, Kusto (KQL), and T-SQL within Azure Synapse Analytics. Expertly optimized query performance and enhanced data visualization by providing performance tuning for Kusto (KQL), SQL, and Power BI. Played a crucial role in supporting the analytics and reporting team, delivering valuable insights, and ensuring efficient data processing.

- Spearheaded the development of an enterprise-scale data center power consumption knowledge graph, optimizing data processing and achieving a 50% reduction in data refresh time.
- Deployed a score ranking model that improved reaction time by 25% during critical issues.

Microsoft, Redmond WA (Remote)
11/2020 – 10/2022
Senior Data & AI Content Developer - Python on Azure Lead

Conducted thorough content gap analysis, customer trend research, and SEO analysis to pinpoint improvement areas. Utilized insights to develop a data-driven content strategy plan, resulting in enhanced customer impact and identified growth opportunities. Created comprehensive implementation guides for Python on Azure, facilitating the seamless adoption of sought-after data engineering solutions.

- Implemented content optimization strategies and developed data-driven resources to increase web traffic by 35%.
- Improved discoverability and overall user experience by enhancing cross-content linking by 25% across Python on Azure areas of Microsoft Docs.

Microsoft, Redmond WA (Remote)
4/2019 – 11/2020
Senior Premier Field Data Engineer

Exceeded customer expectations and contributed to their business success by leading the orchestration of architecture, development, and optimization of scalable cloud solutions from end to end. Empowered participants with enhanced skills and knowledge to effectively leverage Microsoft technologies by conducting impactful global workshops focused on advanced analytics, Power BI, and Azure Data Factory.

- Strengthened client relationships by managing existing support contracts and driving a notable 50% monthly increase in non-contract client engagements.
- Contributed to high-impact internal strategic projects by achieving exceptional contract utilization, surpassing a 90% utilization rate, and simultaneously managing over $1M in contract hours.

Microsoft, Redmond WA (Remote)
1/2018 – 3/2019

Technical Solutions Professional - Data Engineering

Increased Azure adoption and heightened customer satisfaction by acting as a trusted technical advisor, conducting architecture design sessions and proofs of concept for Health and Life Science customers. Led by example and collaborated with top performers to identify innovative solutions for customer opportunities as a selected Technical Community Leader and Health & Life Sciences Technical Council member.

- Enhanced operational efficiency and generated additional revenue by pioneering the development of a nationally shared workload tracking system, transforming follow-up processes, and boosting the sales conversion rate by an average of 8%.

Pragmatic Works, Jacksonville, FL (Remote)
2/2017 – 12/2017

Business Analytics Consultant

Managed resources, client communications, project budget tracking, demand management, and project prioritization for a prominent financial services client. Led the development of an organization-wide, reusable testing strategy, guidelines, and design patterns, leveraging Pragmatic Works LegiTest software, T-SQL, and DAX as the Technical Quality Assurance Lead. Delivered impactful analytics and reporting solutions utilizing the Microsoft SQL Server toolset and Power BI.

- Implemented data health measures, resulting in a 20% reduction in data errors, boosting reliability, trust, and insights for data-driven strategies across the organization.

MedExpress, Canonsburg PA
10/2016 – 2/2017

Senior Business Analytics Engineer

Engaged in cross-functional collaboration with project teams and business partners to understand and translate business requirements into impactful business intelligence solutions by leveraging the Microsoft Business Intelligence SQL Server toolset. Designed dimensional models that successfully integrated data from various source systems such as Athena, DocuTap, and SharePoint.

- Fostered professional growth within the BI team by providing mentorship and guidance to team members.

Duquesne Light Company, Pittsburgh PA
3/2016 – 10/2016

Data Engineer Contractor for OpenArc, LLC.

Led the end-to-end delivery of a transformative Azure modern cloud data warehouse program, driving digital transformation and improved business insights. Developed a robust SQL Server Integration Services (SSIS) data processing framework with advanced features like logging, data-driven configuration, and dimensional modeling patterns. Streamlined data integration processes, enhancing efficiency and data quality.

- Implemented Kimball multi-dimensional design principles to create robust BI data models in SSAS and Power BI; models reduced data processing time by 25% and improved data analysis accuracy by 20%.

UPMC, Pittsburgh PA
9/2014 – 1/2016

Lead Data Analyst for Prodigo Solutions

Ensured data quality and facilitated efficient analysis by designing the architecture for SQL Server Integration Services (SSIS) extract, transform, and load (ETL) processes across Lawson, PeopleSoft, and Meditech ERP systems to denormalize, cleanse, and standardize data.

- Created pipeline for healthcare cost-savings opportunities by conducting an in-depth analysis of spend and contract utilization using SQL Server and SQL Server Reporting Services (SSRS), savings of costs by 30%.

UPMC, Pittsburgh PA
1/2013 – 9/2014

Data Warehouse Architect for Via Oncology

Automated data processing pipelines using Integration Services (SSIS) and T-SQL procedures, triggers, and functions. Proficient in architecting and optimizing data solutions to ensure seamless and efficient data integration. Adept at leveraging industry best practices and tools to enhance data management and streamline deployment processes.

- Architected and engineered an automated data pipeline build and deployment system increasing data quality and reducing environment deployment issues by 75%.

West Penn Allegheny Health System, Pittsburgh PA
8/2011 – 1/2013

Associate Data Warehouse Engineer

Deployed mission-critical reports, dashboards, and operational solutions using IBM Cognos 10.1 suite. Constructed efficient Talend data processing pipelines to generate fact and dimension tables, incorporating complex transforms, slowly changing dimensions, and cross-system integration processes for physician billing and finance data marts.

- Collaborated with senior team members to optimize ETL workflows, improving data loading efficiency by 20%.

PREVIOUS EMPLOYMENT

Technosystems Service Corp.	Pittsburgh, PA	*Software Engineer*	11/2010 – 8/2011
JH Technical Services	Pittsburgh, PA	*Software Engineer, Contractor*	8/2010 – 11/2010
University of Pittsburgh	Pittsburgh, PA	*Research Fellow*	5/2010 – 9/2010
CedarStore.com	Gibsonia, PA	*Web Developer (Part-Time)*	2/2009 – 6/2010
United Steelworkers Union	Pittsburgh, PA	*Information Technology Intern*	1/2007 – 2/2009

EDUCATION

Master of Science, Health Informatics
Northeastern University, Boston MA

Bachelor of Science, Computer Science
University of Pittsburgh, Pittsburgh PA

CERTIFICATIONS

Microsoft Certified Solutions Expert (MCSE) – Data Management & Analytics
Microsoft Certified Solution Associated (MCSA) – BI Reporting
Microsoft Certified: Data Engineering Associate
Microsoft Certified: Data Scientist Associate
Microsoft Certified: Data Analyst Associate
Microsoft Certified: Enterprise Data Analyst Associate
Microsoft Certified Trainer (MCT)
Oracle Internet Academy Intermediate Skills Certificate – Oracle 9i