Helton Pongnon

hjpongnon11@yahoo.com • +1-508-484-3235
LinkedIn • Boston, MA

Data Engineer Profile

Results-driven professional with proven experience designing scalable data solutions, modernizing enterprise platforms, and delivering actionable insights for Fortune 500 clients. Skilled in building ETL pipelines, architecting data models, and optimizing metadata frameworks with Databricks, PySpark, SQL, and cloud-native tools across Azure and AWS. Adept at integrating diverse data sources, automating ingestion frameworks, and processing datasets at scale to support reporting, governance, and business intelligence. Strong background in data visualization with Power BI and AWS QuickSight, translating complex datasets into clear decision-making tools for executives and operations. Recognized for bridging technical and business needs, collaborating across cross-functional teams, and driving modernization initiatives that improve efficiency, compliance, and data-driven strategies.

Areas of Expertise

- Data Engineering & Pipeline Development
- Metadata Frameworks & Data Governance
- Data Modeling & Medallion Architecture

- Big Data Processing & Distributed Computing
- Code Optimization * Debugging
- Business Intelligence & Reporting Solutions

- Programming & Scripting
- Database Development
- Data Visualization & Analytics

Professional Experience

Insight Enterprises – Chandler, AZ (Remote)   2022 – Present
Data Engineer

Design and implement scalable software applications by leveraging modern programming frameworks and best practices. Collaborate with cross-functional teams to translate business requirements into efficient technical solutions. Optimize existing codebases to improve system performance, reliability, and maintainability. Develop APIs and integrate third-party services to enhance product functionality and user experience. Partake in code reviews, contributing to higher coding standards and knowledge sharing. Support deployment activities and troubleshooting in production environments, driving quicker resolution of issues. Research emerging technologies to propose innovative improvements for ongoing projects.

Project Title: Yellow Mercury/Insight Internal Data Modernization, Tenure: 2024 – Present
- Collaborated with Insight's GDMO and Yellow Mercury team to enhance metadata frameworks and improve data movement across enterprise pipelines.
- Leveraged Databricks, Python, PySpark, and SQL to design workflows managing medallion architecture, generating 1,000+ tables and processing 180M+ records daily.
- Integrated 10+ data sources, including Salesforce, SAP, and SharePoint, through APIs, SFTP, and other formats to strengthen ingestion frameworks.
- Built four advanced data models to optimize reporting and inventory tracking.
- Added 10+ features to Metadata Data Framework (MDF), including automated logging, scheduling, and standardized storage for 1,200+ metadata records deployed via Azure DevOps.

Project Title: Woot! Warehouse Modernization, Tenure: 2023 – 2024
- Supported Insight's data team in modernizing warehouse operations for Woot!, Amazon subsidiary.
- Conducted on-site analysis in Carrollton, TX, to identify data efficiency improvements and collaborated with engineering teams to enhance scanner performance.
- Authored 1,000+ lines of SQL for package tracking and bucketing functionality, while designing three database schemas and 10+ tables using SQL, Liquibase, and XML.
- Built and automated five ETL pipelines with AWS tools (S3, RDS, Glue, Athena), Python, and Spark to process and migrate client data into SQL Server.

- Delivered five AWS QuickSight dashboards visualizing scan times, tracking metrics, and package flows, empowering leadership with actionable warehouse insights.

Project Title: *Smithfield Foods Platform Deployment, Tenure: 2023*
- Partnered with Insight's governance team to implement Azure Purview in support of Smithfield's Data Modernization strategy across multiple business units.
- Scheduled scans across 12+ systems, cataloging 40K+ assets from Azure and on-prem sources, including Data Factory, Databricks, Synapse, and ADLS.
- Wrote 500+ lines of JSON and SQL scripts to build data lineage and extract metadata for Purview ingestion.
- Produced three client-facing documentation guides to promote adoption and awareness of governance capabilities.
- Analyzed inputs/outputs of five Alteryx workflows and mapped datasets using medallion architecture for future transformations.
- Contributed to collection strategies and role-based access frameworks by defining 10+ AAD groups and Purview roles.

Project Title: *Insight Internal Marketing Project, Tenure: 2022 – 2023*
- Engaged with Insight's marketing team to deliver data-driven reporting and visualizations to support leadership decision-making.
- Processed and refined 10+ static datasets containing leadership conference details to prepare for analysis.
- Designed three interactive Power BI maps showcasing company meeting locations across U.S.
- Built 20+ charts, graphs, and dashboards using DAX and M, highlighting event attendance, registration trends, and conference effectiveness to measure ROI and operational impact.

Education

Bachelor of Science (Magna Cum Laude) in Informatics
University of Massachusetts – Amherst, MA (2022)
Concentration: *Data Science*
Recognition: *Commonwealth Honors College Student*

Certifications

AZ-900: Azure Fundamentals – Microsoft Certified
DP-900: Azure Data Fundamentals – Microsoft Certified
PL-300: Power BI Data Analyst – Microsoft Certified
DP-600: Fabric Analytics Engineer – Microsoft Certified
Databricks Data Engineering Associate – Databricks Certified

Technical Proficiencies

Programming Languages: Python, SQL, Java, JavaScript, HTML, CSS, M, DAX.
Tools and Platforms: Databricks, Github/Git, PySpark, R, Tableau, Powershell/Command Prompt, Microsoft Azure Services (ADLS, Data Factory, Key Vaults, Fabric, Power BI, etc.), Amazon Web Services (Athena, S3, Quicksight, Glue, RDS, Redshift, etc.), Microsoft Office Suite.

Languages

French: Expert Proficiency
Haitian Kreyol: Expert Proficiency
English: Expert Proficiency