

 304.532.9348  Arrington.Micah@gmail.com  [GitHub/Portfolio](#)
Senior Data Engineer Cloud-Native Architect API & ML Specialist

Professional Summary

Senior Data Engineer with 10+ years of experience designing scalable data solutions across GCP, Azure, and modern data stacks. Proven success in leading cross-functional teams, managing full API and ML lifecycles, and building robust ETL/ELT pipelines. Skilled in cloud-native tools, LLMs, and analytics to drive operational efficiency in Agile/Kanban environments.

Professional Experience

Senior Data Engineer

CBRE @ Google | Jul 2023 – Present

- Managed full API lifecycle using Cloud Run Functions and GitHub for version control.
- Fine-tuned Document AI for parsing and abstracting PDF documents.
- Built GCP functions to process PDFs, JSON, and BigQuery tables using Python and Google SQL.
- Developed Looker dashboards for cross-functional reporting across 13B+ nested rows and 100B+ unnested rows.
- Trained Gemini models for sentiment analysis and NLP classification of work orders.
- Created chatbots using Dialogflow CX and Agent Builder.

Data Engineer

CBRE @ JP Morgan Chase | Nov 2021 – Jul 2023

- Built ETL pipelines using Azure Data Factory, Blob Storage, and SQL Server.
- Developed ML models for sentiment analysis and NLP via transfer learning.
- Created APIs using FastAPI, deployed to Azure Functions with JSON schema validation.
- Automated workflows using Python and Power Automate.
- Built Power Apps for SharePoint and SQL Server integration.
- Led MBA Internship Program: interviewing, onboarding, and curriculum development.

Senior Business Operations Analyst

CBRE @ Siemens | May 2018 – Nov 2021

- Rebuilt budgeting models using Excel (VBA), Adaptive Insights, and SQL Server, saving \$20K annually.
- Automated accounts payable processes, reducing costs by \$60K/year.
- Improved reporting accuracy with Smartsheet, saving \$38K annually.
- Led cost-saving initiatives totaling \$500K/year.
- Linked SSMS data to Tableau for vendor performance dashboards.
- Developed Python bots to automate macro execution.

Senior Pricing Lead

MRC Global | Jul 2016 – May 2018

- Managed \$56M in annual inventory purchases and negotiated supplier costs.
- Built MS Access forms and VBA add-ins to improve productivity.
- Created KPI dashboards using VBA and T-SQL.

Distribution Pricing Lead

MRC Global | Apr 2013 – Jul 2016

- Tracked gross margins and audit risk for \$80M in annual sales.
- Enhanced profitability through data mining and statistical profiling.
- Built macros using VBA and T-SQL for reporting automation.

Loan Support Specialist

United Bank | Feb 2012 – Jan 2013

- Managed high-volume workloads during mergers and system conversions.
- Balanced loan reconcilements and produced compliance reports.

Freelance Software Engineer

Self-Employed | Ongoing

- Built outbound APIs in Python (Flask) for real-time data sync with third-party services.
- Developed RESTful GET APIs to retrieve YouTube/OSINT data.
- Streamed and enriched Bluesky/OSINT firehose data using Boolean logic, disk caching, and atproto requests.
- Integrated APIs with PostgreSQL using psycopg2.
- Automated email workflows and collaborated via GitHub.

Technical Skills

Category	Tools & Technologies
Languages	Python, JavaScript (App Scripts), SQL
Databases	BigQuery, PostgreSQL, SQL Server, MySQL
Cloud Platforms	GCP (Cloud Functions, Document AI, Vertex AI, Dialogflow CX), Azure (ADF, Functions)
Visualization	Looker, Tableau, Power BI
CI/CD & DevOps	GitHub, Artifact Registry, Azure DevOps
Frameworks	FastAPI, Flask, Dialogflow CX
Workflow Tools	Cloud Composer (Airflow), Pub/Sub, Power Automate, Smartsheet, Azure Data Factory
SDLC	Agile, Scrum, Kanban

Education

Master of Business Administration

Marshall University – Lewis College of Business | Huntington, WV

Bachelor of Science in Economics

West Virginia Wesleyan College – College of Business and Economics | Buckhannon, WV

Awards

Citizen Life Saving Award

Oviedo, Florida – 2025

Recognized for exceptional courage and quick action in a life-threatening emergency.