

KENNETH PENDERGAST

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AI Engineer with 15+ years of experience designing data platforms, building ETL/ELT pipelines, deploying AI workflows, and developing production BI environments across SaaS, travel, advertising, and life sciences. Deep hands-on expertise in Python, SQL, Snowflake, Databricks, Power BI, Tableau, and cloud platforms (AWS, GCP, Azure). Track record of architecting cloud data warehouses from scratch, integrating OpenAI and ML models into production systems, and building automation that reduces manual processes from weeks to days. U.S. Coast Guard veteran.

TECHNICAL COMPETENCIES

AI/ML: Power Automate (Cloud), Copilot Studio, OpenAI API, Azure ML Studio, Azure Foundry, Copilot Agents, AI Document Classification, GenAI Workflow Automation, Predictive Analytics, Claude Code, Copilot Github, Google Vertex

Data Engineering: Python, SQL, Databricks, Apache Spark, Snowflake, BigQuery, Redshift, PostgreSQL, Fivetran, Oracle Fusion, ETL/ELT, Data Modeling, IoT

BI & Visualization: Sigma, Power BI, Tableau, DAX, SSAS, Dashboard Design & Governance

Cloud & Infrastructure: AWS, Google Cloud Platform, Microsoft Azure, Microsoft Fabric, Salesforce

Other: PowerShell, Git, Jira, Agile, ServiceNow, R, Data Governance, Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

Allegis Group (via TEKsystems) | Hanover, MD (Remote)

Dec 2024 - Present

Senior Analytics Engineer / Data Migration Lead

- Architected and executed data migrations from 10+ legacy source systems across 3 operating companies into Salesforce and Oracle Fusion, using Snowflake as the central data warehouse for transformation, validation, and analytics.
- Built an AI classification workflow in Power Automate that assessed risk and sensitivity of 200,000+ documents for data governance leadership, automating what was previously a manual review process.
- Developed 12 Copilot agents for documentation validation, code review, and migration quality assurance, embedding AI into the team's daily data migration workflows.
- Redesigned the batch migration framework in Snowflake and Python, reducing turnaround from 3 weeks to days while improving data quality and traceability.
- Created an OCR document preprocessor in python to save \$20k in azure ai credit spend.
- Provided training on AI guardrails, project documentation, token efficiencies, skill building, mcp, and personalization.

Sitecore | Manchester, NH

Dec 2022 - Jul 2024

Sr. Business Insights Manager / Data Engineer (promoted)

- Built the Power BI environment from scratch, deploying dashboards consumed by 1,000+ users globally across customer success, operations, and executive teams.
- Deployed a machine learning churn prediction model into production using Azure ML Studio, scoring Salesforce opportunities and integrating results as account-level health scores.
- Created an OpenAI/ServiceNow integration for automated support escalation, using PowerShell to call the GPT-4o API and write results to Azure SQL Server.
- Led data migration of subscriptions, contracts, and license data from NetSuite to Salesforce CPQ using Microsoft Fabric. Architected a medallion-layer data lake for license activation and usage events.
- Developed and maintained ETL workflows (SQL, Python, PowerShell) from source systems into DAX/SSAS data models powering Power BI.

StudentUniverse | Waltham, MA

Dec 2020 - Dec 2022

Business Intelligence Manager

- Led the end-to-end implementation of Databricks as the core data platform, from building the business case through 9 months of development and deployment.
- Designed ETL workflows processing 20TB of JSON GDS flight and hotel data from AWS S3 using PySpark, with DAG workflows managing 250+ nested JSON arrays.
- Managed Tableau Server operations and governance, reducing data and analytics infrastructure costs by 40%.
- Managed cross-team project delivery for marketing, operations, and pricing stakeholders.

Travel Tripper | New York, NY

Aug 2018 - Sep 2020

Director of Analytics

- Launched the company's cloud data warehouse on AWS, designing ETL workflows from Salesforce, Facebook, Google, and Bing APIs into Redshift using Fivetran.
- Developed fact tables and Tableau dashboards connecting marketing performance to hotel booking revenue, driving 300% increase in analytics product engagement across 150 clients and 1,100 property profiles.
- Reduced annual infrastructure costs by \$140K by converting on-demand AWS resources to reserved contracts.

CJ Affiliate (Conversant) | Westborough, MA

May 2012 - Jul 2018

Senior Technical Analyst

- Built 7 attribution models measuring affiliate impact across 60,000+ publishers and 150M consumer profiles using rules-based, ensemble, and time-decay methodologies.
- Managed analytics for retail, software, and travel accounts exceeding \$1M in annual transactions. Presented insights to leadership, sales teams, and clients at QBRs.
- Led adoption of R programming across the analytics team. Mentored junior analysts from onboarding through promotion to senior analyst.

Switchfly | San Francisco, CA (Remote)

Nov 2016 - Mar 2017

Analytics Developer (Contract)

- Lead architect for client-facing travel analytics platform on Tableau/Greenplum, redesigning data model and serving layer for large-scale performance.

PerkinElmer | Waltham, MA

Apr 2010 - May 2012

Digital Analytics Manager

- Managed global digital analytics across U.S., EMEA, and APAC, implementing Adobe Analytics and defining KPIs for senior leadership. Trained teams across 21 offices.
- Designed a hybrid analytics framework that reduced costs by \$600K in year one. Presented at #Accelerate conference in San Francisco.

CERTIFICATIONS, PUBLICATIONS & SPEAKING

Data Engineering with Databricks (2022)

Pest Control Technology Magazine, AI in Pest Control, January 2025

#Accelerate Conference, Hybrid Digital Analytics Model, San Francisco, 2011

EDUCATION

Full Sail University, Bachelor of Science, Marketing (2013)

Massachusetts Communications College, Associate of Science, Computer Science (2000)