

Alphonso Woodbury

New York | alphonso@alphonsowoodbury.com | [GitHub](#) | [LinkedIn](#) | alphonsowoodbury.com

Data & AI Platform Engineer

Data platform engineer with a decade in regulated, data-intensive environments – the last six years at JPMorgan Chase building the platforms that turn external data into **governed, discoverable, trusted datasets**. I own the contract layer: schema validation, metadata standards, governed access, and the onboarding patterns that let producers publish and consumers build with confidence. Banking and health insurance set my defaults – compliant, auditable, least-privilege. Daily, I build and operate **agentic systems against my own platforms** – the endpoints, guardrails, and schemas that let agents act on data safely.

Technical Skills

Languages	Python, SQL, Bash, Terraform
Data Platform & Governance	ETL/ELT pipelines, data governance, schema validation, metadata enrichment, data lineage, data modeling, Collibra, Snowflake, Kafka, Solr
AWS	Lambda, Step Functions, Glue, Athena, API Gateway, S3, DynamoDB, EKS, EventBridge
DevOps	Kubernetes, Docker, Jenkins, Infrastructure as Code (Terraform), CI/CD, blue-green deployments, GitHub Actions
Observability	DataDog, Splunk, CloudWatch, SLO management, on-call incident response, runbooks

Professional Experience

JPMorgan Chase

Senior Software Engineer – CDAO Fusion Platform | Jan 2026 - Present

- **Designed a data-quality orchestration application** bridging Collibra jobs and rules with consuming applications – triggering runs, capturing results, and publishing them forward via Kafka

Senior Software Engineer – Data Acquisition (Founding Engineer) | Feb 2023 - Dec 2025

- **Built configuration-driven ETL/ELT pipelines** using factory patterns across JSON, CSV, Parquet, XML, and XBRL – standardized producer onboarding that cut vendor integration time by **40%**
- **Designed and deployed a serverless, event-driven data acquisition platform** on Lambda, Step Functions, API Gateway, S3, DynamoDB, and EventBridge, processing vendor files up to **384GB**
- **Engineered pipeline reliability** with retry logic, dead-letter queues, and production monitoring in DataDog and Splunk, supporting an on-call rotation with runbooks and incident response
- **Led cross-functional initiatives** across cybersecurity, architecture, and governance teams

- **Reduced cloud infrastructure costs by 70%** through architecture optimization, right-sizing compute, and eliminating idle resources – treating cost as a first-class design constraint
- **Deployed containerized services on EKS** across multiple AWS regions with Terraform and blue-green deployments
- **Mentored 45+ engineers** across the organization

Software Engineer II – Data Discovery / Data Marketplace (Founding Engineer) | Nov 2021 - Mar 2023

- **Built a data discovery platform** on open-source CKAN with governed access controls and metadata enrichment – a data product enabling technical and non-technical teams to search, evaluate, and access **150K+ datasets**
- **Served as sole engineer on the initial W3C DCAT vocabulary mapping** – company-wide metadata standards work – then built the hydration service for ongoing ingestion; identified a DCAT version gap and upgraded CKAN extensions to resolve it
- **Conducted load testing with BlazeMeter** simulating millions of concurrent requests; platform handled **2M+ daily queries** with Solr tuned to **sub-2-second** response times
- **Managed an EKS cluster running 8 containerized services**, including API gateway, search engine, and cache layers

Software Engineer I – Data Delivery | Nov 2020 - Nov 2021

- **Supported migration from Hadoop** to cloud-native architecture, established team pipeline patterns, and delivered observability dashboards **6 months ahead of schedule**

Humana Pharmacy Solutions

Technical Analyst / Support Analyst | May 2015 - Dec 2019

- **Saved \$1.5M/year** by engineering a fix to a critical shipping operations issue, avoiding a costly vendor upgrade
- **Built a workflow system** that increased team capacity by **300%**, and a knowledge management system that scaled the team from 4 to 15 analysts

Education & Certifications

- **AWS Certified Solutions Architect – Associate** – Amazon Web Services (2024)
- **AWS Certified Developer – Associate** – Amazon Web Services (2024)
- **Data Science Technical Diploma** – Flatiron School, full scholarship (2019)
- **BA, Biological Sciences** – Wright State University