

Alphonso Woodbury

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Senior Software Engineer, Infrastructure

Founding engineer who **built production infrastructure from zero at JPMorgan Chase** – designing the cloud architecture, deployment pipelines, and observability systems that keep financial data platforms running. I scope infrastructure decisions, write the production code, and own reliability end to end. My work sits at the intersection of **software engineering, cloud infrastructure, and operational excellence.**

Technical Skills

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

Professional Experience

JPMorgan Chase

Sr. Software Engineer, Data Acquisition (Founding Engineer) | 02/2023 - Present

- **Deployed containerized services** on EKS across multiple AWS regions using Terraform IaC, owning cluster configuration, networking, and reliability
- **Designed event-driven architecture** using S3 triggers, Lambda, and EventBridge with retry logic, dead letter queues, and observability via DataDog/Splunk
- **Architected serverless data acquisition platform** using AWS Step Functions, Lambda, S3, and DynamoDB to coordinate multi-stage ingestion pipelines processing files up to **384GB**
- **Built Python parsing and transformation services** with factory patterns handling diverse financial data formats (JSON, CSV, Parquet, XML, XBRL) – configuration-driven routing without code changes
- **Reduced cloud infrastructure costs by 70%** through architecture optimization, right-sizing compute, and eliminating idle resources
- **Led cross-functional collaboration** across cybersecurity, architecture, and governance to ship

infrastructure changes across team boundaries

- **Participated in on-call rotation** for production data platform, building runbooks and automated alerting for rapid incident response

Software Engineer II, Data Discovery (Founding Engineer) | 11/2021 - 03/2023

- **Managed Kubernetes cluster** (EKS) running **8 containerized services** including API gateway, search engine, and cache layers
- **Built metadata enrichment framework** standardizing schema, lineage, and quality metadata for the full dataset catalog
- **Tuned Solr search** to **sub-2-second response times** handling **2M+ daily queries** across **150K+ datasets**
- **Conducted load testing** with BlazeMeter simulating millions of concurrent requests to validate scalability

Software Engineer I, Data Delivery | 11/2020 - 11/2021

- **Developed monitoring dashboards** for pipeline observability, delivered **6 months ahead** of schedule

Humana Pharmacy

Technical Analyst / Support Analyst | 05/2015 - 12/2019

- **Saved \$1.5M/year** by engineering a fix to a critical operations issue vs. costly vendor upgrade
- **Built workflow system** that increased team capacity by **300%**

Projects

RxVision – Data Pipeline & ML Infrastructure

- End-to-end data pipeline processing **131K images across 4,864+ classes** – automated ingestion, format conversion, validation, metadata generation, containerized deployment

Education & Certifications

- **AWS Certified Solutions Architect** – Associate (2024)
- **AWS Certified Developer** – Associate (2024)
- **BA, Biological Sciences** – Wright State University