

LAUREN CHAPLINSKI

Senior Data Engineer | Contract & Consulting | Cloud Data Pipelines · Migrations · Regulated Data
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month engagements (remote or Chicago-area hybrid)

SUMMARY

Senior data engineer with 8 years building production data systems for organizations where data is high-stakes and heavily regulated - federal, state, and international government agencies and national healthcare payers - on a foundation of 12+ years working with administrative claims and clinical risk data. Deep experience designing data lakes and automated pipelines, integrating cloud APIs with legacy software, and modeling large claims and payment datasets where results drive multi-million-dollar decisions. Comfortable owning a technical workstream end to end: scoping, building, testing, documenting, and training the team that inherits it.

TECHNICAL SKILLS

Languages: Python (production systems, automated testing), SQL, PySpark, R, SAS, JavaScript/Node.js, VBA

Cloud & Data Platforms: Azure Data Factory, Azure Synapse, Azure SQL, Azure Data Lake, Databricks, Palantir Foundry, SQL Server / SSIS, data lake architecture

Analytics & BI: Power BI (enterprise dashboards), Tableau, statistical & predictive modeling, ML model interpretation, simulation modeling

Practices: Pipeline automation & orchestration, API integration, data quality frameworks, metadata management, GitHub, Jira, DevOps, technical documentation, agentic AI development

Domain Data: Administrative claims (Medicaid, Medicare, commercial), CMS public datasets (HCRIS, T-MSIS, NPDES), US Census/ACS, Solventum payment grouping methodologies and software configuration (APR-DRGs, MS-DRGs, EAPGs, APCs), HIPAA environments

SELECTED PROJECTS

Cloud API Integration for Legacy Rate-Setting Systems

Python · REST APIs · automated testing

- Designed and built production-grade Python integrations connecting external cloud APIs to legacy internal software supporting multi-million-dollar, multiyear actuarial and rate-setting projects - work critical to business continuity after the vendor discontinued its on-premises product.
- Built automated test coverage, wrote configuration and operations documentation, and trained colleagues to run and maintain the system independently.

Price Transparency Data Lake

Azure · Python · 80+ external data sources

- Architected a data lake and automated pipelines to discover, acquire, and ingest machine-readable files from 80+ payer organizations under the federal Transparency in Coverage Act - large-scale, messy, externally-published data at volume.
- Automated data quality metric reporting across all sources, turning an unmanageable manual review problem into a monitored pipeline.

Federal Analytics Product in Palantir Foundry

Palantir · Python · R · Power BI · technical lead

- Led a technical team delivering demographic and geographic analyses of social drivers of health for a large US federal agency, combining public and client data.
- Built the full pipeline, analyses, and visualizations inside Palantir Foundry so the product deployed directly into the agency's own data ecosystem rather than as a throwaway deliverable.

Large-Scale Payment Simulation & Policy Modeling

SAS · SQL · claims datasets

- Modeled statewide claims datasets to simulate the financial impact of payment policy changes for multiple US state agencies - pricing simulations comparing historical vs. projected payments under APR-DRG and EAPG methodologies, case-mix analysis, and rate development.
- Built claim-line-level cost models using cost-to-charge ratios derived from federal HCRIS cost report data; produced CMS-required Upper Payment Limit demonstrations and supplemental payment calculations.

International Supply Chain Dashboards

SQL · Power BI

- Developed healthcare supply chain monitoring dashboards for an East African national government: reporting compliance, supplier performance, stock availability, and recall tracking - SQL for cleaning and standardization, Power BI for delivery.

Independent / Side Projects

- Synthetic data generator: profiles statistical properties of source datasets and generates privacy-safe synthetic CSVs preserving cross-column correlation via Gaussian copula; built for regulated environments where production data can't be used in testing.
- MySQL-to-Azure database migration using MySQL Shell in a constrained no-install PowerShell environment.
- Self-hosted Docker event-driven home automation stack (MQTT, Home Assistant, Tailscale).
- Self-hosted AI-native Markdown note-taking system (SilverBullet, n8n, Tailscale, Claude Code); six automated n8n workflows, including a read-only-scoped agent for weekly review.

PROFESSIONAL EXPERIENCE

Guidehouse — Managing Consultant, Data Science (State Health)

Oct 2018 – Present · Chicago, IL

- Technical delivery lead across data engineering, data product development, and payment analytics for national healthcare organizations and US federal, state, and international government clients - detailed in Selected Projects above.
- Additional delivery: fee schedule-based outpatient payment system redesign and provider-level revenue-neutrality modeling for a large commercial payer; monthly behavioral health utilization reporting with full technical specification documentation for a state agency.
- Various healthcare value transformation and payment analytics consulting projects.

Presence Health — Insurance & Claims Management

Mar 2013 – Oct 2018 · Chicago, IL

- Analyzed claims data and built reports and visualizations for stakeholders across a large Illinois non-profit health system's self-insurance program; administered claims management databases, including data dictionary maintenance and user report development.
- Automated administrative and risk-management reporting processes - origin of both the programming path and deep familiarity with healthcare operational, financial, and liability data.

EDUCATION & CERTIFICATIONS

M.S. Business Data Analytics - Loyola University Chicago, 2018 (3.97 GPA; Beta Gamma Sigma; Dean's Honors)

B.A. - Columbia College Chicago, 2009

Certifications: SAS Programming 1: Essentials (SAS)