# Jay Bennett

**Senior Data Engineer | Snowflake · Databricks · Python**

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## SUMMARY

Senior data engineer with 15+ years building data platforms across financial services, government, and healthcare. Designs Snowflake and Databricks pipelines, metadata-driven ETL, and medallion architectures, and builds Python automation that removes manual mapping and migration work (about 70% less manual modeling across four tracks and 1,000+ Snowflake tables on a state child-welfare warehouse). SnowPro Core certified, with hands-on AWS and Azure delivery and a track record in regulated, compliance-heavy environments.

## CORE SKILLS

**Platforms:** Snowflake, Databricks (Delta Lake, Spark SQL), SQL Server, Oracle, PostgreSQL, Teradata, Supabase

**Engineering:** Python, SQL, PL/SQL, ETL/ELT, medallion architecture, dimensional modeling, metadata-driven pipelines, data validation frameworks

**Cloud & DevOps:** AWS (EC2, RDS, Lambda, Amplify), Azure, Terraform, Docker, Git, Azure DevOps, CI/CD

**AI:** Claude & OpenAI APIs, LLM document classification and extraction, semantic retrieval, prompt and guardrail design

## EXPERIENCE

**Independent AI Development** | Consultant & Builder — Jan 2026 – Present

- Dealer run parser: turns fixed-income dealer emails into a normalized daily residential mortgage-backed securities (RMBS) spread grid. Three-layer Snowflake warehouse (RAW, STG, MART), regex-first parsing with a large language model (LLM) handling the leftovers, and a FINRA API backfill. A 53-test suite caught eight bugs before release
- Legacy modernization tools: an Excel Logic Extractor (React, Claude API, SheetJS) that pulls embedded business logic out of workbooks, and a SQL stored procedure debugger demo with explain, optimize, and dependency actions. Both parse files directly with no server connection
- NBA officiating analytics engine: built a 53-game play-by-play corpus and tested 18 variables with a time-based train/test split. Reported the null results honestly (16 of 18 showed no signal) along with the two that held up
- Portfolio site (jaypiercebennett.com): static site on S3 and CloudFront with a serverless job-fit tool (API Gateway, Lambda, DynamoDB, Claude API) that maps a pasted job description to verified work history and builds a tailored resume

*Stack: Snowflake, Python, React, Next.js, Supabase, Claude API, AWS (Lambda, API Gateway, DynamoDB, S3, CloudFront), Vercel, Swift/SwiftUI*

**xBrezzo, LLC** | Independent Consultant — Aug 2025 – Dec 2025

- Built a multi-tenant SaaS platform that lets tax practitioners collect, classify, and organize sensitive client financial documents
- Designed a Claude API document pipeline that classifies uploads and renames them to a standard Institution_AccountType_Name_Date convention
- Implemented row-level security (RLS), four-role access control, and multi-tenant data isolation on Supabase/PostgreSQL, with automated Playwright tests for each security boundary

*Stack: Supabase (Postgres, RLS, Edge Functions), Claude API, OpenAI API, React, Playwright, GitHub, Claude Code*

**Deloitte** | Senior Consultant — Jun 2023 – May 2025

- TN CCWIS Modernization (Snowflake): built Snowflake data models and ETL pipelines supporting Tennessee's child-welfare migration from a legacy platform to Salesforce
- Wrote Python automation that parses Salesforce metadata and report specs to generate data warehouse mappings, cutting manual modeling effort about 70% across four delivery tracks and producing 1,000+ Snowflake tables
- Created metadata-driven rules for fact/dimension classification, schema-change detection, and automated Snowflake schema updates
- FedEx DataWorks (Databricks): migrated Oracle workloads to Azure Databricks, implementing medallion-architecture transformations in Spark SQL and Python with validation frameworks and PL/SQL optimization
- Oregon Health Authority: designed on-premises data marts and SSIS ETL, and built Power BI executive dashboards presented to agency stakeholders

*Stack: Snowflake, Databricks, Spark SQL, Python, Salesforce, Azure, Terraform, PL/SQL, SSIS, Power BI*

**Augeo** | SQL Developer — Mar 2022 – Jul 2023

- Built and maintained SSIS ETL pipelines, stored procedures, and ad-hoc queries for participant and performance data across client programs
- Migrated on-premises SQL Server workloads to AWS RDS/EC2, owning data loads and validation
- Diagnosed slow queries and load failures and implemented fixes; built proofs of concept for infrastructure improvements

*Stack: SQL Server, SSIS, AWS RDS/EC2, Azure DevOps*

**1upHealth** | Data Engineer (Contract) — Apr 2021 – Jul 2021

- Onboarded new clients' FHIR healthcare data to meet a July 1 compliance deadline, configuring Apache NiFi flows to convert and load records
- Provisioned AWS EC2 and PostgreSQL environments with Terraform and Docker

*Stack: AWS, Terraform, PostgreSQL, Docker, Apache NiFi*

**USCG LLC** | Cloud Engineer (Contract) — Oct 2020 – Mar 2021

- Designed cloud deployment pipelines for Python Flask web applications on AWS and GCP (Docker, NGINX, uWSGI) and introduced GitHub-based version control

**Wells Fargo** | Application Engineer (Contract) — Feb 2020 – Apr 2020

- Analyzed business applications and data stores to identify sensitive data and drove remediation plans with application owners

**U.S. Bank** | Application Developer (Contract) — Feb 2018 – May 2018

- Owned architecture, development, and deployment of back-end databases and SSIS data warehouse ETL

**Wells Fargo** | SQL Server Developer (Contract) — Aug 2016 – Sep 2017

- Migrated manual risk data-source loads into production ETL, partnering with analytics and risk teams
- Designed data extracts, complex queries, and test scripts from cross-business sources (SQL Server, Teradata) and supported parallel-run validation under data governance policy

**NovoLogix (CVS Health)** | BI Developer (Contract) — Sep 2015 – Jun 2016

- Built and modified SSIS ETL and SSRS reports supporting data warehouse operations; authored requirements, use cases, and data mappings

## EARLIER EXPERIENCE

Capella University, BI Developer (2014–2015) · Target, .NET Developer (2013–2014) · Rust Consulting, SQL Server Developer (2012–2013) · Best Buy, .NET Developer (2011–2012)

U.S. Bank, Systems Analyst / Programming Analyst / Bond Operations (2006–2011): built Access/VBA and VB.NET applications that automated escheatment and bondholder operations

## EDUCATION & CERTIFICATIONS

Professional Certificate, Applied Data Science, Thayer School of Engineering at Dartmouth (2021)

B.A., Psychology & Business, University of St. Thomas

**Certifications:** Snowflake SnowPro Core · Power BI Data Analyst (PL-300) · AWS Cloud Practitioner · Azure AI-900, AZ-900, DP-900 · Advanced Prompt Engineering & Generative AI (Deloitte)