

Ryan W. Lazar

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SUMMARY

Data and AI engineer with 3 years at Deloitte serving federal and commercial clients, currently completing an M.S. in Data Science. Work spans production data pipelines, cloud infrastructure, BI, and agentic AI systems — with a track record of shipping end-to-end, from infrastructure-as-code to live, publicly deployed products. Earlier experience leading cross-functional teams as a technical project manager; equally comfortable owning delivery and translating technical work for non-technical stakeholders.

EXPERIENCE

Solution Analyst, Deloitte Consulting

Jul 2023 – Present

Philadelphia, PA

- Built a Python ETL pipeline consolidating 50 compensation survey workbooks (500,000+ rows) and matching them against ~50,000 VA job titles, replacing a three-week manual turnaround with a 15–30 minute automated run.
- Developed the compensation-setting engine behind it — percentile-based market pricing plus a configurable business-rules layer — bringing the capability in-house and retiring two external benchmarking vendors.
- Built and maintained Snowflake schemas across 100+ dev and production tables with automated ingestion pipelines, adding validation logic that resolved recurring ETL failures and prevented downstream reporting and compliance gaps.
- Built a Python automation tool integrating REST APIs with SharePoint-connected Power BI dashboards, cutting manual data collection from 4 hours to 15 minutes daily (94%) and establishing a reusable team pattern.
- Maintained financial risk-monitoring data feeding 20+ Power BI dashboards for a \$42B federal broadband program, used by senior leadership to track spending and flag budget overruns.

Technical Project Manager, OneSeven Tech

Jul 2022 – Dec 2022

Miami, FL

- Led 12 people across 6 cross-functional teams (Design, Dev, QA) and served as primary client liaison for 4–5 concurrent projects (\$45K–\$200K each), running sprint planning and velocity tracking that improved on-time delivery.

SELECTED PROJECTS

AskMyData — Agentic Analytics on Oracle AI Database 26ai

askmydata.ryanlazar.dev

Anthropic API · Oracle AI Database 26ai · OCI · Terraform · FastAPI · Docker

- Built a conversational analytics agent with the entire AI stack inside the database: Oracle 26ai native vector search for RAG (no external vector store), natural-language SQL over live data, and persistent agent memory, with read-only SQL guardrails and a full in-database audit trail.
- Provisioned OCI infrastructure as code with Terraform and deployed a containerized FastAPI service that streams the agent’s reasoning loop live over server-sent events; live and publicly deployed over HTTPS at askmydata.ryanlazar.dev.

Autonomous AI Investment Monitoring System

Anthropic API · Model Context Protocol (MCP) · Python · Supabase · Railway

- Designed and deployed a two-agent system on the Anthropic API and Model Context Protocol that monitors holdings, pulls live market data via tool use, and generates daily risk and performance briefings; ran unattended for two weeks with no human intervention.
- Built a deterministic grading engine computing beta, Sharpe ratio, and sector-diversification scores, backed by 100+ unit tests, with agents translating raw metrics into plain-language insight for non-technical decision-making.

NYC Taxi Analytics Platform

PySpark · Airflow · PostgreSQL · Next.js · Docker

- Engineered an Airflow-orchestrated PySpark ETL pipeline processing 100M+ records into PostgreSQL with data-quality checks and sub-second query performance, surfaced in a Dockerized Next.js dashboard for demand and hotspot analysis.

TECHNICAL SKILLS

Languages: Python (pandas, NumPy, PySpark, scikit-learn), SQL, R

AI & Agentic Systems: LLM application development, AI agents (Anthropic API, Model Context Protocol), retrieval-augmented generation, vector search, prompt engineering, GenAI workflow automation, Responsible AI

Cloud & Infrastructure: Oracle Cloud Infrastructure (OCI), Oracle AI Database 26ai, Terraform (IaC), Docker, Snowflake, PostgreSQL, Supabase, FastAPI, REST API integration

Data Engineering: ETL/ELT pipeline development, Apache Airflow, Apache Spark, Informatica PowerCenter, data-quality validation

Machine Learning: Classification, regression, clustering, deep learning & NLP (TensorFlow/Keras), large language models

BI & Tools: Power BI, Tableau, Streamlit, Git, JIRA, Agile/Scrum, stakeholder & change management

EDUCATION & CERTIFICATIONS

M.S. Data Science, Drew University, Madison, NJ | GPA 3.76

May 2026

B.A. Economics, Minor in Data Science, Drew University, Madison, NJ | GPA 3.63

May 2023

A.S. Business Administration, Hudson County Community College, Jersey City, NJ | GPA 3.90

May 2021

Certifications: Anthropic AI Fluency • Anthropic AI Capabilities & Limitations • Microsoft PL-300 Power BI • Deloitte ML Foundation • PSM I (Scrum.org)