

Neal Iyer

Data & Financial Analyst | McLean, VA | 240-644-7960 | neal.iyer88@gmail.com | [Github](#)

Professional Summary

Data Analyst with 3+ years of experience in SQL, Python, and cloud-based data platforms, delivering self-service tools, business intelligence dashboards, and automated data pipelines to drive decision-making and operational efficiency.

Professional Skills

- **Data & Analytics Tools:** SQL (PostgreSQL, SQL Server), Python (Pandas, NumPy, Scikit-Learn), R (basic), Power BI, Tableau, Excel (Advanced, VBA), Jinja2, WeasyPrint
- **Data Engineering & APIs:** ETL Pipelines, Data Warehousing (AWS, Snowflake, SPARS), FastAPI, REST API Design, Resume Parsing, Keyword Matching
- **Automation & NLP:** Python Scripting, GPT-4 Integration, Keyword Scoring, Experience Chunking, Workflow Automation
- **Business Intelligence:** Dashboarding, Self-Service Tools, KPI & Metric Development, Ad Hoc Reporting, Trend Analysis
- **Application Development:** Streamlit, Modular Python Architecture, PDF Resume Generation, Format Templates
- **Financial Analytics:** Budget Forecasting, Cost Allocation, Variance Analysis, Operational Efficiency
- **Collaboration & Delivery:** Agile Methodologies, Stakeholder Engagement, Cross-Functional Teams

Experience

Substance Abuse and Mental Health Administration, Department of HHS

Budget Analyst

Dec '23 - Mar '25

- Designed a **Tiered Allocation Proportion (TAP)** framework in Excel to proportionally distribute shared costs across 80+ programs, **reallocating over \$100M** in overhead spending and enhancing transparency.
- Developed a **real-time payroll tracking system** using Python and Power BI, integrating 10+ fund sources and improving **budget reconciliation efficiency by 25%**.
- Automated financial reporting workflows in Python and Power BI, reducing manual report creation by **40%** and improving executive decision cycles.
- Created SQL and Excel models for a **\$165M payroll budget**, improving forecast accuracy by **15%** and supporting strategic staffing decisions.
- Queried financial data from HHS's SPARS data warehouse to standardize reports and ensure data quality, supporting compliance with federal guidelines.
- Built **Excel VBA tools** to streamline incentive tracking, enhancing data accuracy by **85%** and saving **120+ hours annually**.
- Led variance and cost-impact analysis to uncover insights that informed **spending reductions and resource optimization**.

CRI - Department of the Interior

Budget Analyst

Mar '21 - Dec '23

- Engineered **SQL-based ETL pipelines** to transform and standardize budget and logistics data, improving reporting accuracy by **20%**.
- Built Excel VBA tools for financial tracking and reconciliation, **cutting manual processing by 30%**.
- Designed Power BI dashboards visualizing cost trends, KPIs, and division-level performance to support **data-driven management**.
- Collaborated with IT and Finance teams to align backend data sources with business reporting needs and ensure **data governance best practices**.

Cresa

Accounting Analyst

Dec '20 - Mar '21

- Automated expense tracking in Excel, reducing reconciliation errors by **35%** and supporting audit-readiness.
- Built dynamic models to inform budgeting and financial statement analysis for internal decision-makers.

FrontStream

Fund Accountant

Aug '18 - Sep '20

- Led financial reconciliation for Fortune 500 clients, improving transaction accuracy by 30% through automation.
- Developed SQL-based audit tools to validate fund distributions for Fortune 500 clients, **improving accuracy by 30%**.
- Led automation of reconciliation reporting processes, saving over **250 hours per year** and improving compliance across reporting cycles.

Education and Certifications

Flatiron Data Science Bootcamp

Certificate | General Studies

- Advanced expertise in **Python, SQL, data visualization, machine learning, and feature engineering**.
- Built and optimized machine learning models for classification, regression, and time series forecasting (ARIMA, XGBoost, LightGBM, Random Forests, Gradient Boosting, Decision Trees) to extract insights from complex datasets.

University of Maryland (UMBC) - Baltimore County

Bachelor of Arts | Economics

HackerRank Intermediate SQL Certification

Projects

Substance Abuse Risk Prediction (ML Capstone)

- Built classification models to detect opioid abuse risk using behavioral data.
- Applied NLP sentiment analysis and visualized insights in Tableau for public health strategy.

Resume Tailoring & Auto-Application Assistant (*Ongoing*)

- Building a full-stack resume optimization platform that allows users to search jobs, upload/build resumes, format design templates, tailor content using GPT-4, and apply to multiple jobs in bulk.
- Developed a Python pipeline with FastAPI and GPT-4 to parse resumes, extract job keywords, tailor each resume individually, and apply consistent formatting using Jinja2 after content enhancement.
- UI (Streamlit) supports resume intake, job filtering, batch job selection, automated PDF generation, submission tracking, and future Chrome extension-based autofill for supported applications.

Independent Learning & Projects

- Cloud Data Warehousing: Built and optimized ETL pipelines in Snowflake and AWS, enhancing data transformation and query performance.
- SQL Optimization: Developed efficient SQL queries for large-scale datasets and business reporting use cases.
- Pipeline Automation: Designed and automated end-to-end data pipelines integrating cloud storage, transformation logic, and Power BI/Tableau dashboards.