

# William Higginbotham

Data Analyst with experience in working in Python, SQL, R, and Tableau. Adept at integrating data-driven strategies into marketing and operational initiatives to achieve measurable growth.

## Contact

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## Education

University of Colorado, Aug 2019 - Dec 2023

BS in Business Administration

GPA: 3.4

Rice University Jan 2024-July 2024

Data Analytics Bootcamp

## Professional Experience

FirstSource

*Data Analyst, June 2021-Present*

- Developed and optimized SQL queries and ETL processes in Oracle and MS SQL, enabling accurate trend analysis and actionable insights for business decision-making.
- Created and implemented a Power BI reporting tool, improving team efficiency by 5% and saving 1.5 hours per week (75 hours annually) through streamlined enrollment processes and error reduction.
- Designed and maintained custom SSRS reports, enhancing cross-departmental reporting and data accessibility across Oracle and MS SQL databases.
- Partnered with cross-functional teams to refine data pipelines, improve data validation routines, and support organizational goals with robust data solutions.

## Languages

JavaScript; HTML5; CSS; Python, MySQL; Some experience in Java.

## Technologies

React, Flask, TailwindCSS, Git, Docker, PostgreSQL, MongoDB, Pandas, NumPy, Matplotlib, AWS (Lambda, S3), Vercel, Render, Power BI, DAX, ETL

## Projects

### Sample Full-Stack

Built a fully functional web application for practice using Python (Flask) for the backend and React with TailwindCSS for the frontend.

Hosted the backend on Render and deployed the frontend on Vercel.

### Python Data Visualization Dashboard

Developed a dashboard using Python's Dash framework to visualize trends and analyze datasets dynamically.

Features included real-time data updates, category-specific graphs, annotations, and data export capabilities.

### Power BI Note Tool (Work related)

Created a Power BI tool that enhanced the efficiency of Blue Cross's enrollment department by 5% and reduced manual errors.

Integrated SQL, DAX, and ETL processes to streamline workflows and automate data management tasks.

Enabled the enrollment team to copy notes for scenarios, reducing time spent on repetitive task