

+ summary profile

I am a curious, solution-oriented, software developer with a passion for building clean, maintainable, and human-centered applications. After studying Computer Science at the University of Georgia, I joined Griffin & Strong where I engineered data analysis pipelines for four governments. I currently work at Guidehouse where I support a variety of agile consulting teams through development of interactive dashboards, data models, ETL pipelines, and automated workflows. I am eager to contribute to a team where I can leverage my data engineering and consulting experience to support full stack development.

+ work experience

Guidehouse (formerly PwC Public Sector)

Solutions Consultant, Advanced Analytics and Intelligent Automation

Jan. 2021 to Current

- Developed automation, ETL, and feature engineering processes for exploratory, descriptive, and predictive risk-based analytics for the Center for Medicare and Medicaid's payment models
- Collaborated on front-end development of fraud detection MVP with Vue, Quasar, and OpenLayers, improving SaaS capabilities within firm
- Created data validation algorithm to isolate errors in user-entered health provider data using Pandas
- Delivered three data models and data entry/validation applications for auditing and reporting which were reused on multiple auditing teams
- Created exploratory visualizations and drill-down dashboards with Altair, Plotly, and Power BI
- Communicated with stakeholders to advise data and automation strategy with respect to infrastructure, timeline, and budget
- Empowered business users by creating documented self-service "Stored Processes" and a Community of Practice, reducing reliance on IT

Griffin & Strong P.C.

Data Scientist

May 2020 to Jan. 2021

- Completed data collection, preparation, validation, and statistical testing of disparity index for City of Chattanooga, City of Frederick, Mecklenburg County, and Cuyahoga County which serve as a factual predicate for business inclusion programs
- Completed utilization analysis for Invest Atlanta and Clayton County
- Lead effort to create supervised classifier to solve time consuming and costly data labeling problems
- Created DAGs for reproducible transformations of data
- Standardized operating practices for efficient and validated research
- Mentored data analyst to improve their analysis process and follow best practices

Data Analyst

Nov. 2018 to May 2020

- Translated research methodology from subject matter experts into Python and adapted algorithms to each organization's constraints
- Performed exploratory analysis on collected data from governmental organizations to test data quality and give recommendations to aid future studies
- Isolated data gaps and anomalies and cleaned data for reproducible analysis
- Communicated with external teams and stakeholders to collect data and present findings

+ certifications

Lean Six Sigma · Yellow Belt

Jan. 2022

+ education

University of Georgia

Bachelor of Science Computer Science
2018

· Cumulative GPA: 3.55 (Cum Laude)

+ projects

Student Data Management

A live web application for creating, updating, and deleting records related to students built with Spring, Java, Maven, React, and deployed to AWS through a CI/CD pipeline.

Equity Lib

An open source Python library containing pre and post-processing algorithms for wrangling common problem patterns in Excel files. The primary problem solved is resolving entities in joined data systems and traceability of rule based decisions.

PASSNYC: Data Science for Good

An analysis of NYC public schools which provides a recommendation to PASSNYC for how they should distribute their services to improve the diversity of the specialized high schools

Data Profiler

A Python software allowing non-programmers to take advantage of the open-source "pandas-profiling" library which creates comprehensive HTML summaries of raw data files. This summary includes data warnings, missing values, and correlations. The front-end was built using PyQt and can run on any operating system.

+ skills

BACK-END	FRONT-END	DATA	DEVOPS
Python	JavaScript	SQL	AWS
Java	Vue	MongoDB	Docker
Spring	React	GraphQL	Maven
Node	Quasar	Pandas	Terraform
REST APIs	Storybook	Power BI	Jenkins
	Qt		GitHub Actions
	D3		
	OpenLayers		