

# Riley Sample

## EDUCATION

University of Texas at Austin, Austin, Texas  
Bachelor of Arts in Economics  
Certificate, Computer Science

## PROFESSIONAL EXPERIENCE

RESEARCH & PLANNING CONSULTANTS, LP (RPC)  
Austin, Texas

Economic Research Assistant (April 2025–Present)

- Assists economic and financial consultants with data analysis and data presentation.
- Provides research for RPC’s personal injury reports and Certificate of Need regulatory services, including summaries of findings and compilation of data.

PEARL TECH

Austin, Texas

Quantitative Analyst Intern (September 2024–March 2025)

- Utilized Python to detect patterns in stock market data, identifying trends for strategy development and optimization.
- Conducted back testing of investment strategies to evaluate performance, optimize algorithms, and implement risk management practices.
- Automated data extraction and integration using APIs to streamline the acquisition of real-time market data.

UNIVERSITY OF TEXAS AT AUSTIN

Austin, Texas

Undergraduate Research Assistant (March 2023–May 2023)

- Responsible for data extraction, cleaning, preparation, and analysis, utilizing Python and Excel to transform raw financial data into models and visualizations.
- Created several statistical models to identify the significant differences between the debt makeup of newer and older companies.
- Conducted research of peer-reviewed articles to ensure the accuracy of the models and findings.



## **TECHNICAL PROJECTS**

### UK Rail Data Project – Python Data Analysis / Engineering

- Made use of the UK National Rail API alongside Apache Kafka to create a containerized ETL pipeline and stream live rail data into an AWS database.
- Read data into Python using Apache Spark and conducted data cleaning, preparation, and EDA.
- Identified several key insights relating to delayed trains, including how the time of day, day of week, or weather will affect train scheduling and plotted relevant data in Microsoft Power BI.

### The Impact of GDP on Suicide Mortality – Excel Data Analysis

- Imported data including GDP per capita and suicide mortality at the country level into Excel spreadsheets. Used the data analysis package within Excel to identify the relationship between GDP and suicide using various statistical techniques.
- Created visualizations including bar charts and scatterplots to depict the correlation and distribution of the variables.

## **STATISTICAL PROGRAMMING AND APPLICATION PROFICIENCY**

- Programming Languages: Python, R, SQL, MongoDB, JavaScript, Stata, HTML, CSS
- Libraries / Tools: Pandas, NumPy, Matplotlib, Seaborn, Sklearn, Git, Jira, Docker, Apache Spark, Kafka
- Other Tools / Skills: Jupyter, PowerBI, LookerStudio, Excel (VLOOKUP, Pivot Tables), PowerPoint, Word, EDA